

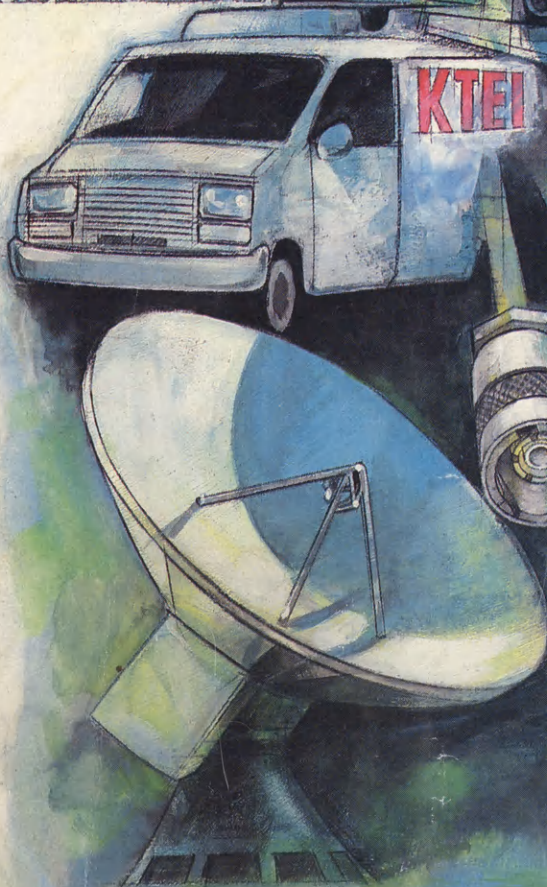
Trompeter

COAX
TRIAx

TWINAX



CABLE
ASSEMBLIES



PATCHING
CONNECTORS



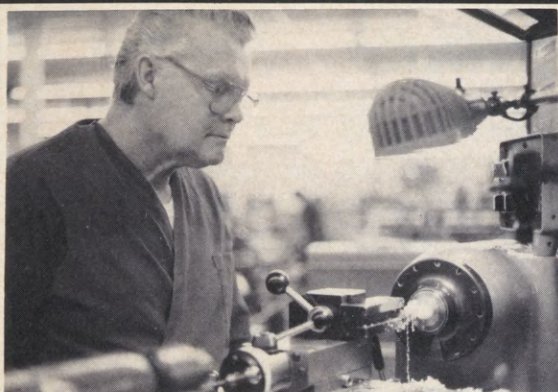


Interconnection Quality

Founded in 1960, Trompeter Electronics, Inc. has established a reputation for producing quality interconnection system components. We've earned that reputation with innovative designs, quality manufacturing, and engineering support from both our nationwide network of sales representatives and our headquarters in beautiful Westlake Village, California.

The Trompeter name stands for high quality interconnection components for coax, twinax, triax and quadrax applications. Our connectors, patch and switching panels, and our cable assemblies provide for the proper interconnection of equipment from many manufacturers with a minimum of engineering, space and cost. Trompeter components are produced to tolerances that ensure reliable operation in adverse environments.

Look to Trompeter Electronics, Inc. for quality patch panels, patch cords, cable assemblies, jacks, plugs, looping plugs, power dividers, and RF connectors.



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Products?...Products!

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Quick Reference Product Guide

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Trompeter . . . OBSESSION: QUALITY! A Message to the Design Engineer:

Trompeter components meet your most demanding requirements when performance is critical, "compromise" is not an acceptable solution and "cost savings" do little to save the integrity of your design. Mechanically our connectors are the toughest in the industry. We invite you to learn more about our design features by reading the product introductions and the performance, material and finish specifications in our catalog. We have included our technical paper "**Electronic Systems Wiring and Cable**" as an informative resource.

It is unfortunate that military specifications governing the manufacture of connectors do not more fully address many of the pitfalls of improper plating, inferior connector base material and critical contact spring material plating. The military "**Qualified Product List**" (QPL) is only a tabulation of products and manufacturers certified to meet minimum specifications standards. Lax specifications and "low bid" procurement policies will frequently place inferior components in critical applications.

Instead of the QPL, Trompeter military items are supplied under the **ADCP** (Acquisition and Distribution of Commercial Products) program, **DOD Directive No. 5000-37**, dated September 1978. To initiate a "**no substitution**" restriction, insert the numeral "**2**" under **Item 65** and the letter "**B**" under **Item 66**.

All Trompeter connectors carry a one-year guarantee and meet or exceed the highest industrial and government standards, such as MIL-C-39012 and MIL-C-49142 which was developed from our commercial parts. More importantly, our connectors are designed to meet your design specifications which are often more demanding. We have built our business on responding to your special needs for uncompromised performance in a world of increased pressure from global competition.

Trompeter hopes that you, the **Design Engineer**, will continue to rely on Trompeter's reputation for quality and look forward to the 1990s with anticipation, pride and, of course, that ever-present **OBSESSION: QUALITY**.

ON-TIME OBSESSION!

Introducing ZIP-SHIP Service



ZIP-SHIP Service means that we can **Zip** stock products from our expanded inventory and **Ship** it within 24 hours of receipt of your order.

Hundreds of different stock connectors in this catalog can be on their way—**FedEx, DHL, UPS** or via your routing to meet your tough deadlines.

Look for this special "**ZIP-SHIP**" symbol throughout the catalog.



The symbol tells you that many of our most popular configurations of that component are in stock. Ask for **ZIP-SHIP Service** when you place your order.

Non-Stock and Custom Items:

We've expanded our inventory of ready-to-assemble components. Lead time for Non-stock or Custom items has been cut from 12 weeks to 8 weeks or less!

Trompeter . . . OBSESSION: ON-TIME DELIVERY!

Custom Components A Trompeter Tradition

From 1964 to 1966, Trompeter's catalog grew from 78 components to 146 as a result of new and modified designs for unusual applications.

With Trompeter's tradition of **Custom Components** comes our reputation for rugged products that have been modified or specially designed to perform to your expectations and to meet your specific mechanical requirements. The growth of our product line from 78 components in 1964 to 7,000+ end items with over 20,000 configurations in 1991 is proof of our engineering and manufacturing capabilities.

Why compromise your design when a minor modification might be an affordable solution to your design needs?

Why settle for less than Trompeter's OBSESSION for QUALITY when investing in custom interconnect components for your most demanding applications?

This catalog is your first resource for solving your special interconnect problems. If you cannot find a sufficient solution then we invite you to consult us with your special requirements.

Trompeter . . . OBSESSION: QUALITY!

Telecom Applications



Increased competition has made the elimination of down-time and transmission noise high priorities for the telephone companies. Many of our products were developed specifically for the telecom industry which continues to invest in quality electronic components for reliability and performance.

More and more, the Telecom Industry is turning to Trompeter and our **Obsession for Quality**

BNC Miniature Coax 75Ω Cable Connectors: **Page**

75Ω Wrench Crimp, U20 Series **25-26**

Typically withstands 100-110 lbs. pull!
(Mil spec for cable retention is 10-40 lbs. depending on the size of the cable.)
Cable actually pulls apart, breaking away the braid before the connector pulls off the cable!

75Ω Tool Crimp, U220 Series **25-26**

Typically withstands 70-90 lbs. pull!
(Almost double mil spec requirement!)
Exceeds MIL-C-39012B, category "D" requirements
Accommodates many industry standard cables made by AT&T, Comm/Scope, etc.
(AT&T 728, 734A and 735)

See **Coax Connectors—Introduction** for a feature by feature explanation of the benefits of Trompeter's design! **22-23**

75Ω Patching Products

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Standard Coax Patch Panels	55-57
Miniature Coax Patching 75Ω	18-20
Miniature Coax Patch Panels 75Ω	58

DSX Modules **21**

Rugged, dependable DSX modules meet or exceed the highest government and industry standards. Designed for accessing and cross-connecting DS4, DS-4E and DS-3 transmissions. Dimensionally equivalent replacement for the ADC DSX-4M (Rear cross-connect)

Custom Panels **6, 59**

Trompeter has manufactured custom distribution panels with BNC connectors for DS3 data transmission rates (45 megabits) which are used in distribution systems related to DSX applications.

Broadcast Applications



After more than 30 years, and even with the advent of highly sophisticated digital switching equipment, Trompeter patching products still provide for the practical, reliable and affordable re-routing of RF and Video signals.

Custom panels with our 75Ω Miniature Patching for **high-density** Low VSWR applications, such as Electronic News Gathering (ENG) and Remote Broadcast vans and trailers, have been developed to meet the industry's current need for quality, high-density RGBS patching.

Patching Products: **Page**

50Ω & 75Ω Standard Coax Patching **7-15**

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50Ω Miniature Coax Patching **16-17**

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75Ω Miniature Coax Patching **18-20**

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Patch Plugs	20
Looping Plugs	19
Cords and Cable Assemblies	19

Audio Patching **10**

Dual Jacks	10
Looping Plugs	10
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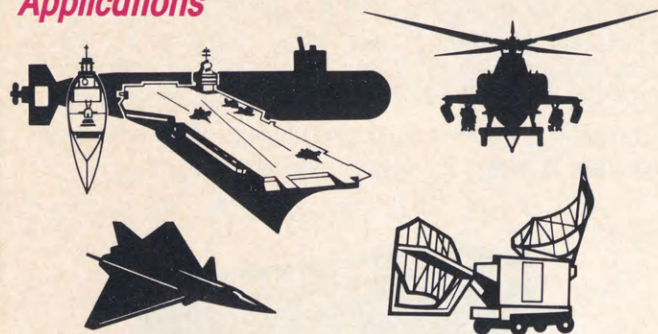
Cable Jacks & Plugs **25-26**

(Wrench Crimp & Tool Crimp)

Custom Panels **6**

RGBS Panels	6
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Military Twinax/Triax Applications



Twinax/Triax connectors are used in military applications to protect signals from extraneous noise through non-signal-carrying shielding. Interfacing connectors must provide contact surfaces isolated from each other and from their outer shields.

MIL-STD-1553B addresses twinax applications for computerized/multiplexed digital data distribution systems servicing the many functions of **Command, Control, Communications and Intelligence (C3I)** which was originally designed for military aircraft.

The great advantages of additional information, automation and weight savings, which are necessary for the complex demands of aircraft operations, are realized by using a single transmission cable instead of the complicated, heavy, dedicated multiple cable previously used. The 78Ω twinax cable was selected to provide the transmitted digital information with the needed protection from magnetic, electro-static and **nuclear electromagnetic pulse (NEMP)** interference. Complete shielding of the twisted pair along the transmission path and of all electrical contacts within multi-pin connectors must be maintained.

Twinax noise reduction is discussed in Appendix A: **"Electronic Wiring Systems and Cable"** Pages 67-75

MIL-STD-1553B applications are found in **naval surface ships, battle tanks, helicopters, missiles, space vehicles, combat aircraft** and in many ground applications such as **data networks** and **perimeter security** for airports, armories, and other government installations.

Trompeter provides matching components of Twinax/Twinax connectors and cable for improving the transmission capabilities and interference rejection of data transmission systems.

Trompeter components will meet or exceed **MIL-STD-1553B** requirements for airborne and ground check-out **MIL-STD-1760** "external stores."

General Military Applications of Trompeter Twinax/Triax Connectors.

For detailed information on the features and benefits of each series see:

Twinax/Triax Connectors: Introduction Pages 34-35

General Application	Page
70 Series: Miniature Twinax/Triax (TRB/TRT)	37-39
Used for digital data bus, video pair, airborne MIL-STD-1553B, base-band circuit and other "Noise Free Guarded" circuit applications. Used on larger military aircraft, naval surface ships, and on the Trident submarine.	
150 Series: Subminiature Twinax/Triax (TRS/TTM)	41-43
Used for digital data bus, video pair and airborne MIL-STD-1553B, base-band circuit and other "Noise Free Guarded" circuit applications. Used on ASW/Patrol, CAS/Attack, Tanker and all types of military aircraft.	
70 Series: Concentric Miniature Patching	47-48
150 Series: Concentric Subminiature Patching	48-49
Quick disconnect, high density connectors to quickly route/program signals. Used in ground support applications.	
80 Series: Standard Twinax/Triax (TRC/TRN)	36
Standard "C" sizes concentric connectors. Designed for shipboard data bus MIL-STD-1397	
30 Series: Miniature Connectors (TWBNC/TWNC)	40
2-Pin polarized 2-lug/threaded connectors. Not recommended for new design. Use concentric designs.	
450 Series: Subminiature Twinax	44-45
Concentric connectors designed for airborne digital data bus weight reduction applications. Used on CAS/Attack, Stealth, Military transport and all types of military aircraft.	
MIL-C-39029-90/91: Twinax Contacts For Digital Data Bus Multi-pin Connector	35
Mated pair of scoop-proof concentric contacts to fit the #8 cavity in multi-pin connectors such as the MIL-C-38999 Series 1, 3, & 4, and the MIL-STD-1760 "external stores" type. Fully QPL'd	

Custom & Standard Cable Assemblies

Trompeter Electronics provides cable assemblies made from any Trompeter connector(s) and any **compatible cable** listed on pages 61-65.

Unless otherwise specified cable assemblies will be made with the Trompeter **specification cables** listed on page 60.

Custom Cable Assemblies may be ordered using the following format:

BJ29 / RG223 / PL40 - 36

(Connector 1 / Cable / Connector 2 - Length in inches)

The **Standard Cable Assemblies** below are included in this catalog. To order use the following format:

PCX - L - Z

(Model Number - Length in inches - Impedance)

Connector 1	Connector 2	Part #	Page
Coax Cable Assemblies			
PL1C	PL1C	PC	12
PL93	PL93	PCH	15
PL94	PL94	PCHY	15
PL3C	PL3C	PCM	17
PL11C	PL11C	PCMW	19
PL11C	PL50	PCMWX	19
PL3C	PL50	PCMX	17
PL50	PL50	PCMY	17
PL123	PL123	PCP*	12
PL1WC	PL123	PCPWX*	12
PL1C	PL123	PCPX*	12
PL1WC	PL1WC	PCW	12
PL1WC	PL20	PCWX*	12
PL1C	PL20	PCX*	12
PL20	PL20	PCY*	12
PL220	PL220	PCYC*	12

*Prefix with "U" for 75Ω connectors

Twinax Cable Assemblies

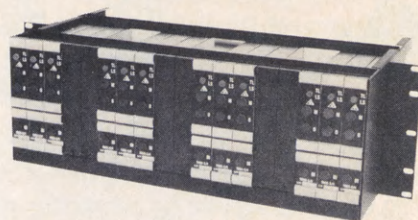
PL71	PL71	PTW	47
PL150	PL150	PTWM	49
PL150	PL155	PTWMX	49
PL155	PL155	PTWMY	49
PL71	PL75	PTWX	47
PL75	PL75	PTWY	47

Triax Cable Assemblies

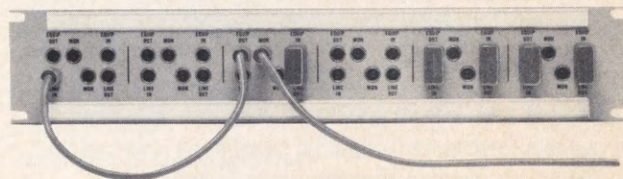
PL71	PL71	PTR	47
PL150	PL150	PTRM	49
PL150	PL155	PTRMX	49
PL155	PL155	PTRMY	49
PL71	PL75	PTRX	47
PL75	PL75	PTRY	47

Custom Panels

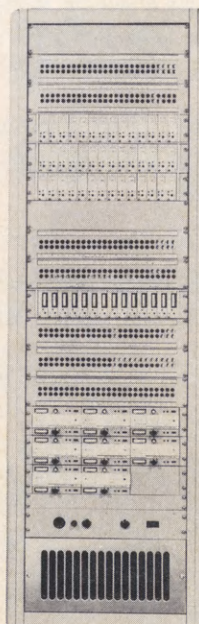
Trompeter Electronics is unique in the field of custom panel manufacturing. Panels can be configured to meet your specifications (including wiring), can be painted any FED-STD-595 color # and/or engraved or silk screened. Trompeter Electronics can also supply custom racks and cabinets to meet your special requirements.



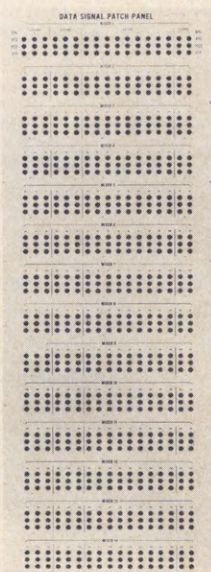
DSX Cross-Connect Module
(See Page 21)



Digital Cross Connect



Telemetry



Data Signal

COAX PATCHING

Introduction & Standard Patch Jacks

Patching connectors provide maximum flexibility needed to re-route signals and are used in "shielded cable," video, and RF applications. These jacks may be intermixed on the same panel provided the mechanical limitations are recognized. **Microswitches** may be added to all jacks in this series (except as noted) by adding the letter "A" to the part number.

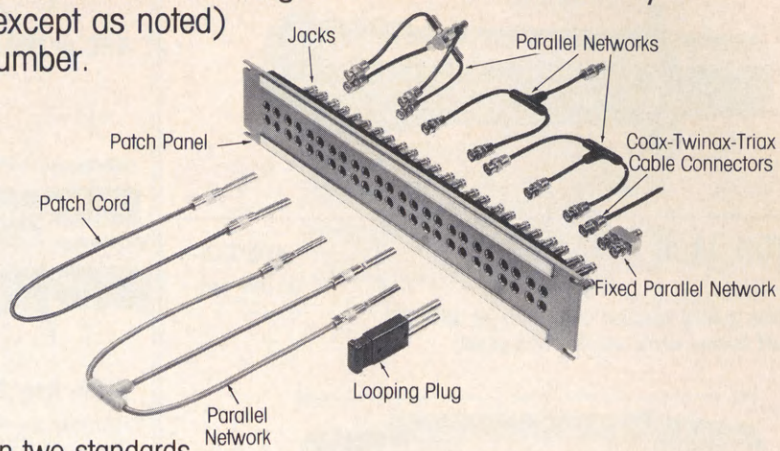
Example: J3 with microswitch = J3A

Panels: Pages 54-58

Cable Distribution Panels: Page 59

Custom Cable Assemblies: Page 6

Trompeter patching products are available in two standards with different impedances and center pin contact sizes.



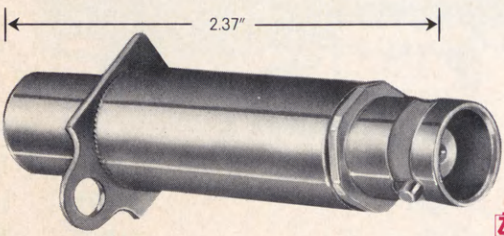
COAX PATCHING

RCA 50Ω - center pin .070"

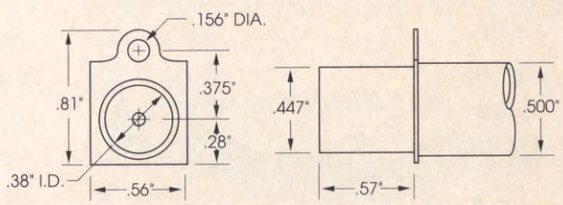
Western Electric 75Ω - center pin .090"

PATCH JACK BNC

J3 RCA
J3W WE

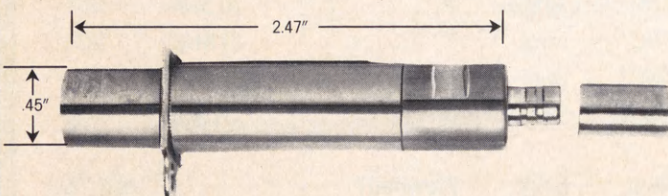


JACK MOUNTING DETAIL



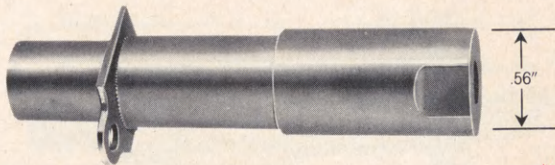
PATCH JACK* Crimp

J3C-△ RCA
J3WC-△ WE



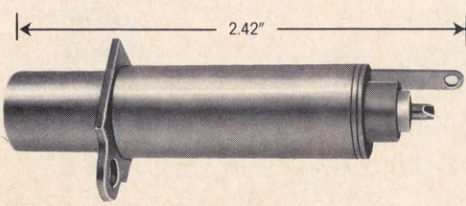
PATCH JACK* Cable entry, Field serviceable

J3E-△ RCA
J3WE-△ WE



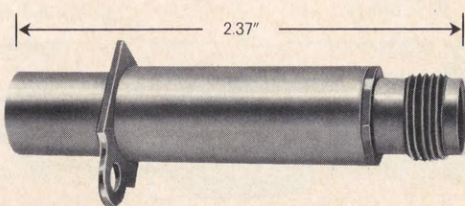
PATCH JACK Solder pot

J3D RCA
J3WD WE



PATCH JACK TNC

J5 RCA
J5W WE



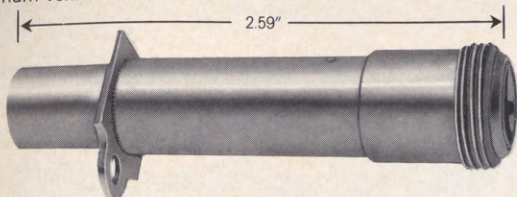
* - Microswitch not available, △ - Cable Group # page 33, Panels page 54, Tools page 51

COAX PATCHING

Standard Coax Patch Jacks

PATCH JACK

N
Minimum vertical/horizontal centers of .875"

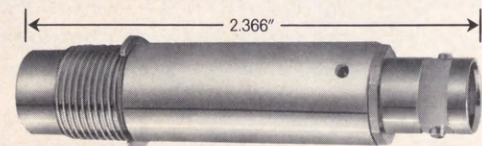


J9 RCA
J9W WE



PATCH JACK

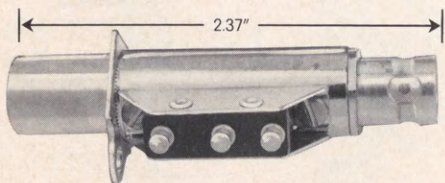
BNC
Requires special threaded panel. .05-28 UNEF-2A
Consult factory when ordering with panels.



J10 RCA
J10W WE

PATCH JACK

BNC, External SPDT Microswitch
(125-250VAC; 5 amps / 28VDC; 1 amp res., 3 amps ind.)

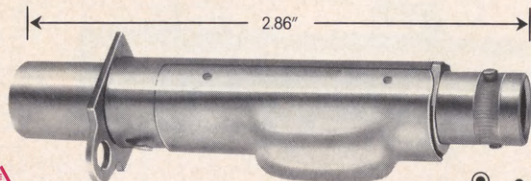


J3A RCA
J3WA WE

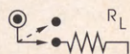


SELF TERMINATING PATCH JACK

BNC
Circuit is terminated when plug is removed.

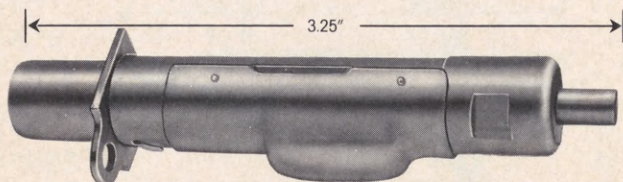


J13-R RCA
J13W-R WE



SELF TERMINATING PATCH JACK

Cable Crimp



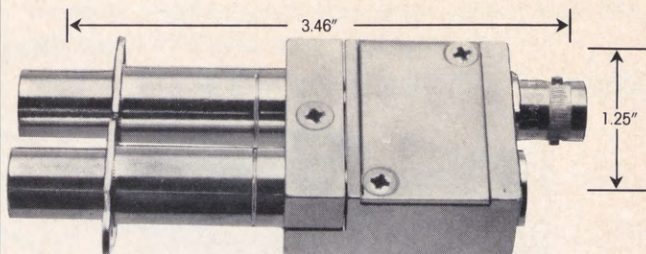
J13C-△ RCA
J13WC-△ WE

DUAL PATCH JACKS

J15 Series

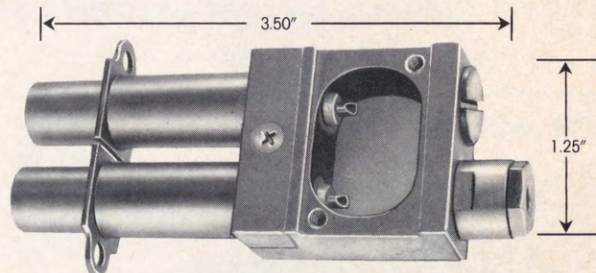
Mounted vertically or horizontally on 5/8" centers. Mounting tabs are normally back-to-back as shown. For side-by-side tabs for horizontal mounting add the letter "L" for left-hand tabs or "R" for right-hand tabs.

BNC or TNC Rear Entry



Cable Rear Entry

Normally one rear entry connection.
Provisions for 1 or 2 coax and twinax cables.



Rear	Entry	Prewired?	RCA50Ω	
BNC	Single	Y	J15B	RCA
BNC	Single	N	J15BA	RCA
BNC	Dual	Y	J15BB	RCA
BNC	Dual	N	J15BBA	RCA
TNC	Single	Y	J15H	RCA
TNC	Single	N	J15HA	RCA
TNC	Dual	Y	J15HH	RCA
TNC	Dual	N	J15HHA	RCA
Cable	Single	N	J15-△	RCA

Rear	Entry	Prewired?	WE 75Ω	
BNC	Single	Y	J15WB	WE
BNC	Single	N	J15WBA	WE
BNC	Dual	Y	J15WBB	WE
BNC	Dual	N	J15WBBA	WE
TNC	Single	Y	J15WH	WE
TNC	Single	N	J15WHA	WE
TNC	Dual	Y	J15WHH	WE
TNC	Dual	N	J15WHHA	WE
Cable	Single	N	J15W-△	WE

Miniature Coax 75Ω Dual & Quad Jacks page 18

△- Cable Group # page 33, R - Resistance, Panels page 54, RCA - .070" pin 50Ω, WE - .090" pin 75Ω

COAX PATCHING

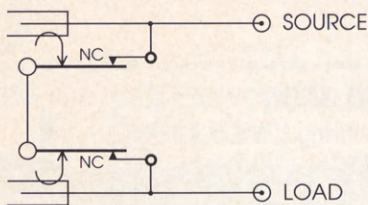
Standard Coax Normal-Through Patch Jacks

NORMAL-THROUGH PATCH JACK

J14 Series

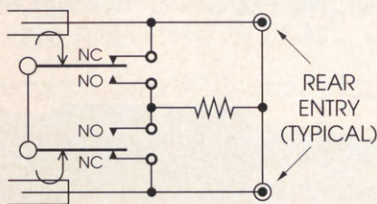
The J14 Series of connectors are dual coax jacks which automatically provide a normal-through signal path without the use of looping plugs or patch cords. The normalizing switch contacts utilize a unique self-wiping action for positive contact.

Unterminated:



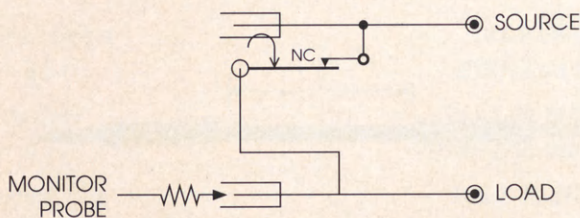
Terminated:

Provides a resistive load to the unused side. Plugging into the source side automatically terminates the load side. Inserting a plug into the load side automatically terminates the source side.



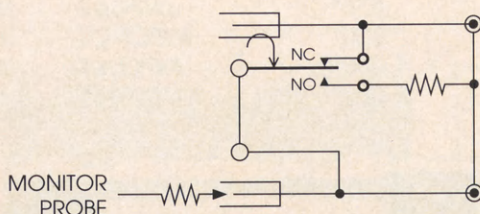
Monitor:

Monitors the normal-through signal only. Inserting a plug in the alternate side breaks the normal-through.

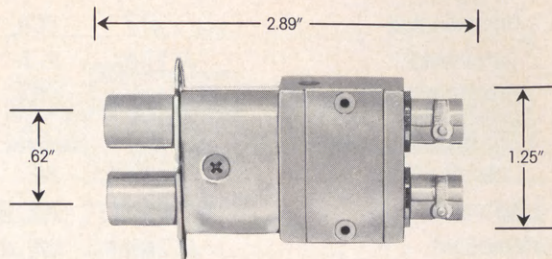


Monitor-Terminated:

Plugging into the source side provides a resistive load to the monitored side. Insertion into the load side monitors the normal-through signal.



Mounting tabs are normally back-to-back as shown. To order side-to-side for horizontal mounting add the letter "L" to the part number for left-hand tabs or "R" for right-hand tabs.



BNC/TNC Rear Entry

BNC	Unterminated	J14	RCA
BNC	Terminated	J14T-R	RCA
BNC	Monitor	J14M	RCA
BNC	Monitor-Terminated	J14MT-R	RCA
BNC	Unterminated	J14W	WE
BNC	Terminated	J14WT-R	WE
BNC	Monitor	J14WM	WE
BNC	Monitor-Terminated	J14WMT-R	WE
TNC	Unterminated	J14H	RCA
TNC	Terminated	J14HT-R	RCA
TNC	Monitor	J14MH	RCA
TNC	Monitor-Terminated	J14MHT-R	RCA
TNC	Unterminated	J14WH	WE
TNC	Terminated	J14WHT-R	WE
TNC	Monitor	J14WMH	WE
TNC	Monitor-Terminated	J14WMHT-R	WE

Cable Crimp Rear Entry

Unterminated	J14C-△	RCA
Terminated	J14CT-R-△	RCA
Monitor	J14MC-△	RCA
Monitor-Terminated	J14MCT-R-△	RCA
Unterminated	J14WC-△	WE
Terminated	J14WCT-R-△	WE
Monitor	J14WMC-△	WE
Monitor-Terminated	J14WMCT-R-△	WE

Panels pages 54-57

△- Cable Group # page 33, R - Resistance (.5 W 2%), Tools page 51, RCA - .070" pin 50Ω, WE - .090" pin 75Ω

COAX PATCHING

Standard Coax Patch Jacks & Audio Patching

NORMAL-THROUGH PATCH JACK

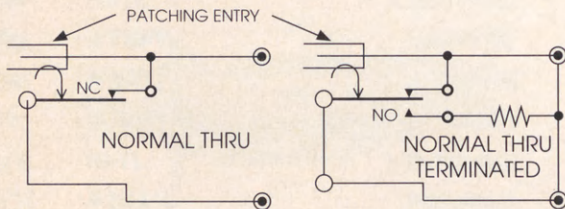
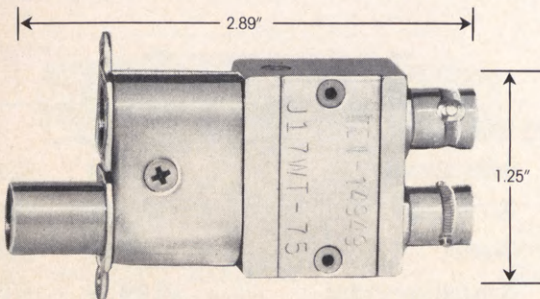
J17 Series

Single Leg

Features are the same as the J14 Series. Page 9
Mount in JSN / JSIN-20 panels only. Call factory.

Rear Configuration

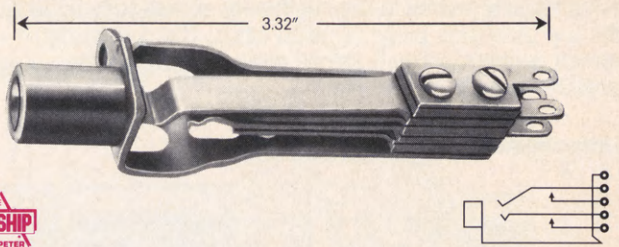
BNC	Unterminated	J17	RCA
BNC	Terminated	J17T-R	RCA
TNC	Standard	J17H	RCA
TNC	Terminated	J17TH-R	RCA
BNC	Unterminated	J17W	WE
BNC	Terminated	J17WT-R	WE
TNC	Standard	J17WH	WE
TNC	Terminated	J17TH-R	WE



AUDIO JACK

M641/3-2

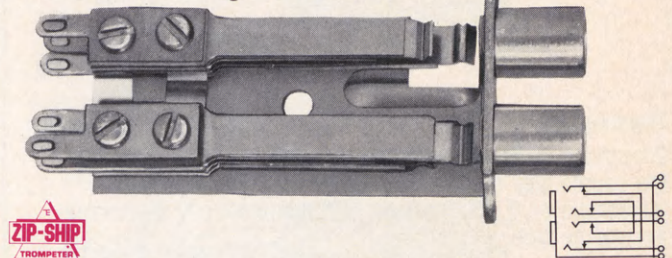
3 Circuit Normalizing JJ042



DUAL AUDIO JACK

MT-389

3 Circuit Normalizing WECO 482A

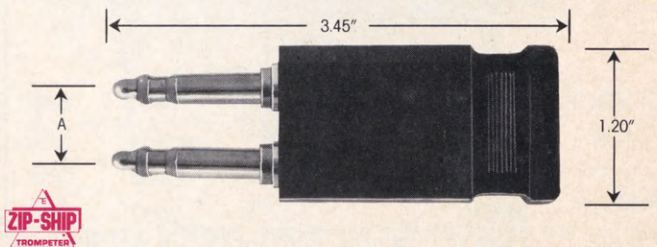


AUDIO LOOPING PLUG

A = .625"
A = 1.000"

ALP3
ALPL3

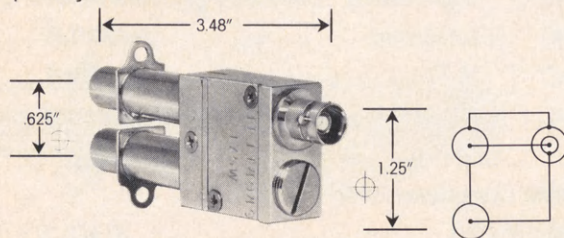
3 Circuit



TWINAX/TRIAX ADAPTER JACK

J75W WE

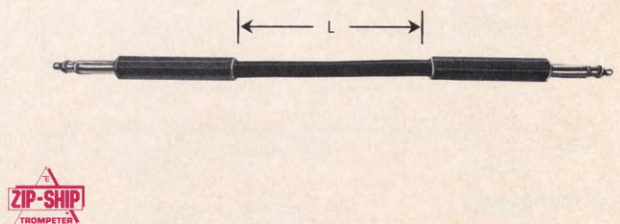
Tip-Tip patch jack to concentric TRB series



AUDIO PATCHCORD

APC3-L

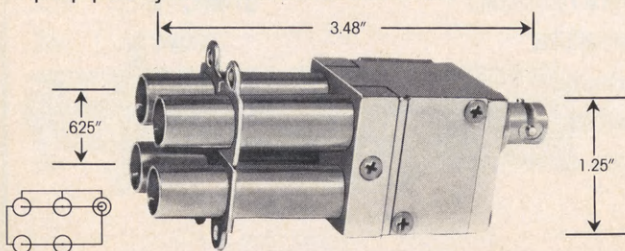
3 Circuit



TWINAX/TRIAX ADAPTER DUAL JACK

J76W WE

Tip-Tip patch jack to concentric TRB series

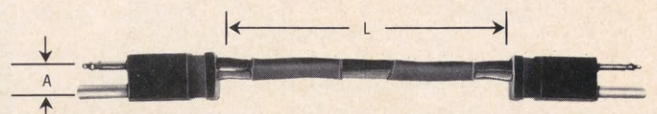


AUDIO VIDEO PATCH CORD

Handle

A

Green	.625"	AVPC-L-Z	RCA
Green	.625"	AVPCW-L-Z	RCA
Violet	1.000"	AVPCL-L-Z	WE
Violet	1.000"	AVPCLW-L-Z	WE



L - Length in inches, R - Resistance (.5 W 2%), Z - Cable Impedance, Panels page 54, RCA - .070" pin 50Ω, WE - .090" pin 75Ω

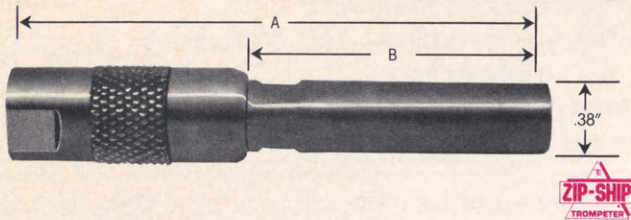
COAX PATCHING

Standard Coax Patch Plugs

PATCH PLUG

A = 2.73" B = 1.50"
Shield Crimp A = 2.45" B = 1.29"
Bend relief page 20 Δ - Cable Group # page 33

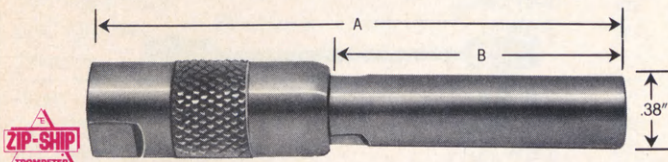
PL1C- Δ RCA
PL1WC- Δ WE



PATCH PLUG

CABLE ENTRY, FIELD SERVICEABLE

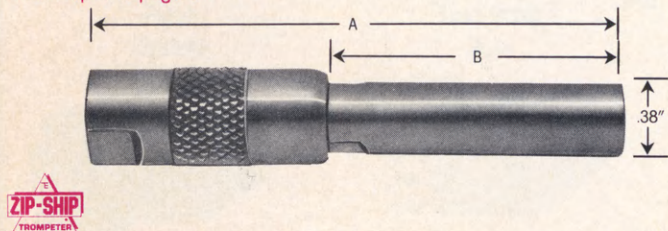
RG58 A = 2.80" B = 1.56" PL1 RCA
RG59 A = 2.80" B = 1.56" PL2 RCA
RG58 A = 2.52" B = 1.29" PL1W WE
RG59 A = 2.52" B = 1.29" PL2W WE



TERMINATION PLUG

A = 2.73" B = 1.50" TP-1-R RCA
No chain A = 2.50" B = 1.23" TPW-1-R WE
Chain options page 34

TP-1-R RCA
TPW-1-R WE



BNC ATTENUATOR

Male/Female
L = 3.24"

Male Only
L = 3.17"

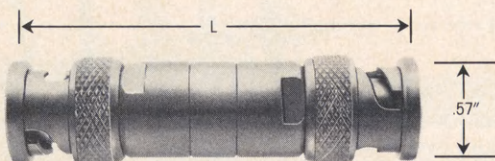
Female Only
L = 3.30"

TNA-Z-dB-BNC
UTNA-Z-dB-BNC

TNA-Z-dB-BNC/M
UTNA-Z-dB-BNC/M

TNA-Z-dB-BNC/F
UTNA-Z-dB-BNC/F

Video frequency max. 10MHz, Attenuation 20dB max.

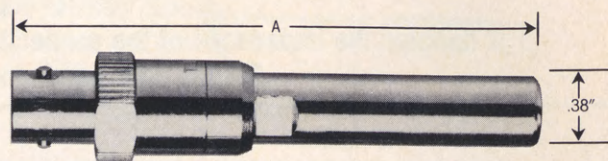


ADAPTER

50 Ω BNC A = 2.77"
50 Ω TNC A = 2.77"
75 Ω BNC A = 2.83"
75 Ω TNC A = 2.83"

PATCH PLUG TO BNC/TNC

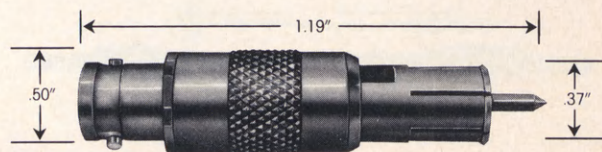
AD1 RCA
ADH1 RCA
AD1W WE
ADH1W WE



PROBE PLUG

BNC rear access
Monitors J14 without interrupting normal-through signal.

MP4 RCA
MP4W WE



RFI PATCH PLUG CAP

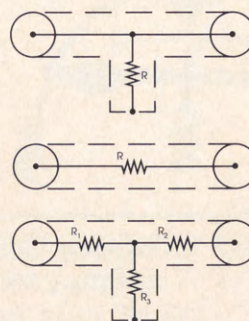
RF120-1 RCA

No chain.
Chain options page 32



BNC PADS

Schematic

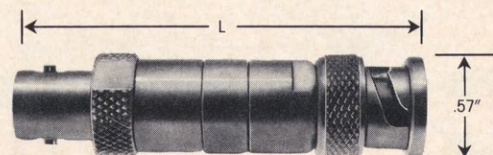


L

2.16" TNA2-R 50 Ω
UTNA2-R 75 Ω

2.16" TNA3-R 50 Ω
UTNA3-R 75 Ω

3.23" TNA4-R 50 Ω
UTNA4-R 75 Ω



dB - Attenuation, R - Resistance (.5 W 2%), Z - Impedance, Panels page 54, RCA - .070" pin 50 Ω , WE - .090" pin 75 Ω

COAX PATCHING

Standard Coax Patch Cords & Cable Assemblies

Trompeter's coax patch cords and cable assemblies

are of the highest quality and come in standard lengths of **6", 12", 18", 24", and 36"**.

Standard patch cords and cable assemblies are made with:

RG58 type TEI cable for 50 Ω applications • RG59 type TEI cable for 75 Ω applications

RG62 type TEI cable for 93 Ω applications

Z denotes the impedance of the connecting cable, not the impedance of the plug or jack.

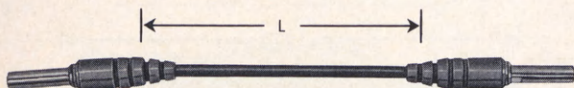
50 Ω & 75 Ω patch cords are not interchangeable

Custom Cable Assemblies made from Trompeter connectors and compatible cables, Page 6

PATCH CORD

Patch plug to patch plug

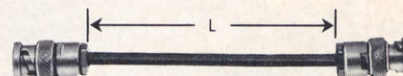
PC-L-Z RCA
PCW-L-Z WE



CABLE ASSEMBLY

Plug to Plug
BNC**

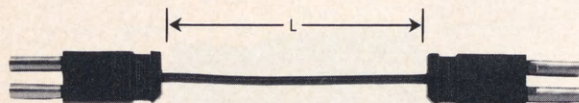
PCY-L-Z
UPCY-L-Z



TIP-TIP PATCH CORD

Z* - 78 Ω and 124 only

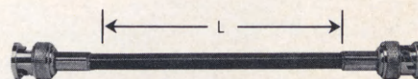
PTWD-L-Z* WE



CABLE ASSEMBLY

Tool Crimp plug to plug
BNC**

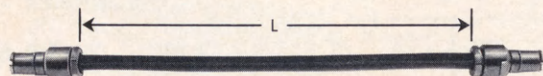
PCYC-L-Z RCA
UPCYC-L-Z WE



CABLE ASSEMBLY

Push-on plug to push-on plug
BNC/TNC**

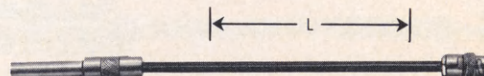
PCP-L-Z
UPCP-L-Z



CABLE ASSEMBLY

Patch plug to plug
BNC**

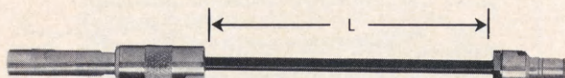
PCX-L-Z
UPCX-L-Z



CABLE ASSEMBLY

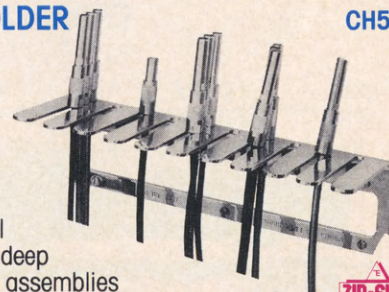
Patch plug to push-on plug
BNC/TNC**

PCPX-L-Z RCA
PCPWX-L-Z WE



PATCH CORD HOLDER

CH50



Wall mount
Black epoxy over steel
10.75" wide x 4.50" deep
Holds up to 50 cable assemblies
For use with .75" dia. and smaller cables



BNC/TNC** - for 75 Ω prefix "U", L - Length in inches, Z - Cable Impedance, RCA - .070" pin 50 Ω , WE - .090" pin 75 Ω

COAX PATCHING

Standard Coax Looping Plugs and Paralleling

LOOPING PLUGS

Handle: B = 1.51" C = .625" D = 1.20"

Plain	LP-Z	RCA
Pinch	LPP-Z	RCA
Test Point Single	LPTP-Z	RCA
Test Point Dual	LP2TP-Z	RCA
BNC Monitor	LPA-Z	RCA

Handle: B = 1.51" C = 1.00" D = 1.57"

Plain	LPL-Z	RCA
Test Point Single	LPLTP-Z	RCA
BNC Monitor	LPLA-Z	RCA

Handle: B = 1.25" C = .625" D = 1.20"

Plain	LPW-Z	WE
Pinch	LPPW-Z	WE
Test Point Single	LPWTP-Z	WE
Test Point Dual	LPW2TP-Z	WE
BNC Monitor	LPLWA-Z	WE

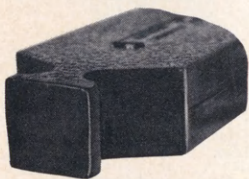
Handle: B = 1.25" C = 1.00" D = 1.57"

Plain	LPLW-Z	WE
Test Point Single	LPLWTP-Z	WE
BNC Monitor	LPLWA-Z	WE

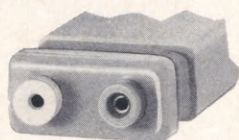
Handles are color coded

Green = 50Ω Violet = 75Ω White = 93Ω

**Pinch
Handle**



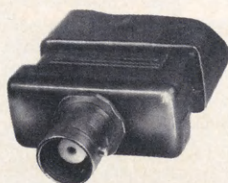
**Test Point
Dual**



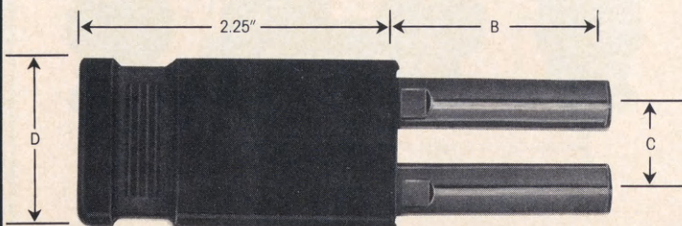
**Test Point
Monitor**



**BNC
Monitor**



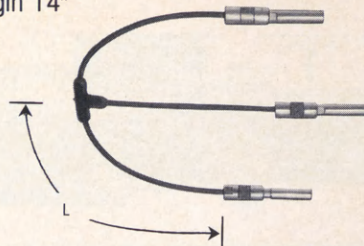
Plain Handle



TRIPLE PARALLELING PATCH CORD

PCS-L-Z RCA
PCWS-L-Z* WE

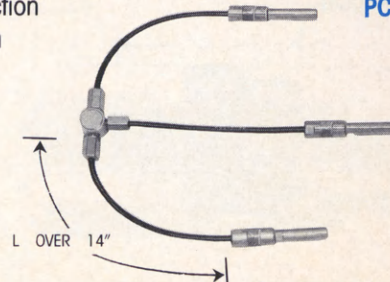
Molded Junction
Maximum length 14"



TRIPLE PARALLELING PATCH CORD

PCSE-L-Z RCA
PCWSE-L-Z WE

Metal Junction
Any Length

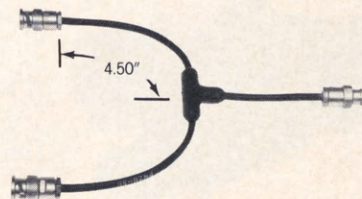


BNC STANDARD RANDOM PARALLELING

Two plugs, One Jack

Molded Junction
Metal Junction

PN2B-Z*
PN2BE-Z



BNC STANDARD RANDOM PARALLELING

Three plugs, No Jack

Molded Junction
Metal Junction

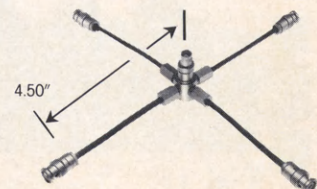
PN3-Z*
PN3E-Z



BNC STANDARD RANDOM PARALLELING

PN4-Z

Metal Junction
Four plugs, One Jack



L - Length in inches, Z* - Cable Impedance 50Ω or 75Ω only, Z - 50Ω, 75Ω & 93Ω, RCA - .070" pin 50Ω, WE - .090" pin 75Ω

COAX PATCHING

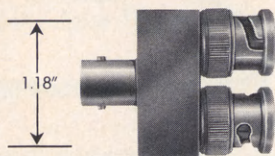
COAX PATCHING

Standard Coax Paralleling

BNC FIXED PARALLELING

One jack, Two plugs

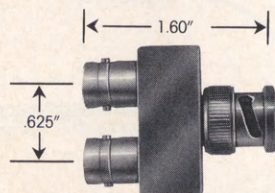
PN2



BNC FIXED PARALLELING

Two jacks, One plug

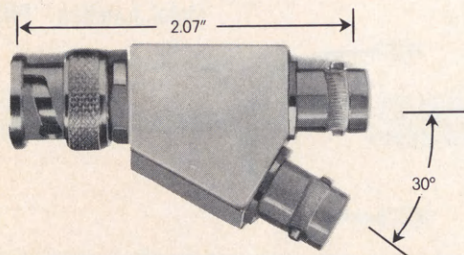
PN2A



BNC FIXED PARALLELING

Two jacks, One plug (For two-row panels)

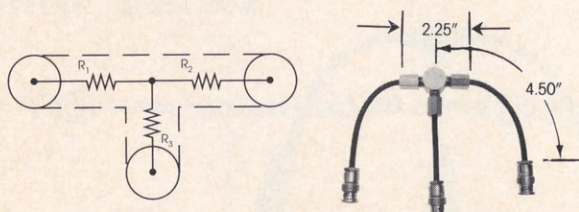
PN2C



BNC POWER DIVIDER

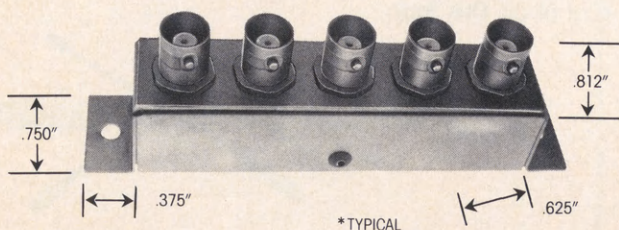
Maximum 10 MHz, Z*-50Ω, 75Ω & 93Ω

PD3-Z*



MULTIPLE PARALLEL NETWORK

BNC MPN-△/BNC
TNC MPN-△/TNC



BNC FIXED PARALLELING

"L"

One Input

No Input

0.625"

PNS-B△

PNSX-B△

0.750"

PNS-C△

PNSX-C△

0.830"

PNS-D△

PNSX-D△

0.875"

PNS-E△

PNSX-E△

1.125"

PNS-F△

PNSX-F△

1.125"

PNS-G△

PNSX-G△

1.210"

PNS-H△

PNSX-H△

1.251"

PNS-J△

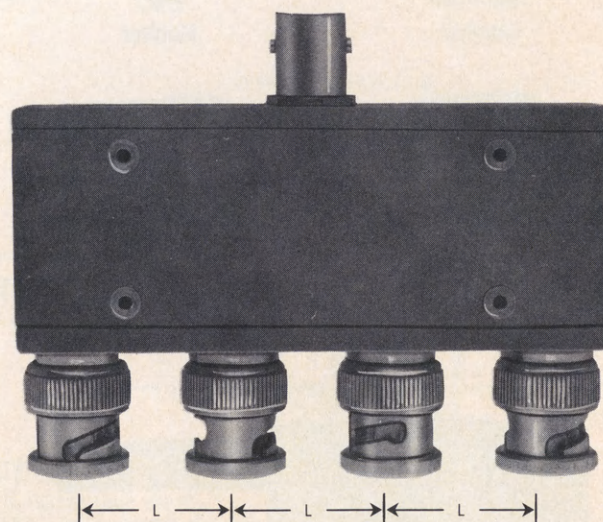
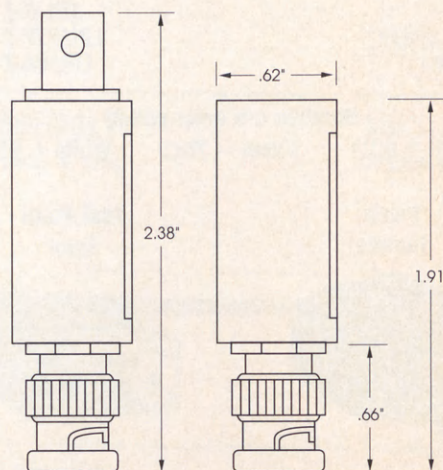
PNSX-J△

1.430"

PNS-K△

PNSX-K△

△ = Number of Connectors



COAX PATCHING

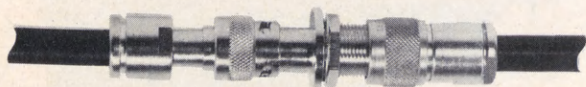
Standard Coax Low VSWR Patching 50Ω

TYPICAL LOW VSWR ASSEMBLY

Patch Plug

Patch Jack

"N" Connector



Trompeter's 50Ω low VSWR (1.11:1.0) patching system has been developed for use at frequencies up to 3GHz and at power levels up to 500 watts.

J94 jack accepts a "N" male connector in back and the PL93-Δ or PL94-Δ in the front of the panels shown or a custom panel of your own design.

Patch plugs incorporate a push-fit design that snaps into position in the jack and are available with or without a bayonet locking feature.

Normal jack spacing is 3" center at center.

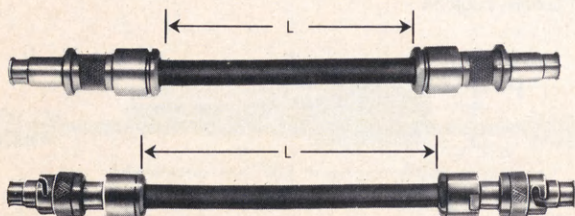
For a minimum band radius when patching adjacent jacks, use Trompeter standard patch cords made with RGB cable with a minimum length of 14". Otherwise the minimum length is 18".

**Factory loaded panels at
no additional cost!**

See page 54

PATCH CORDS

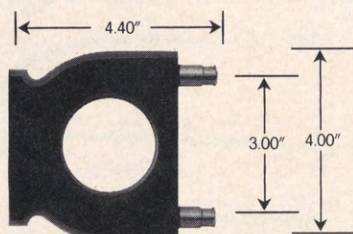
PL93 PCH-L-50 50Ω
PL94 PCHY-L-50 50Ω



LOOPING PLUG

Green handle

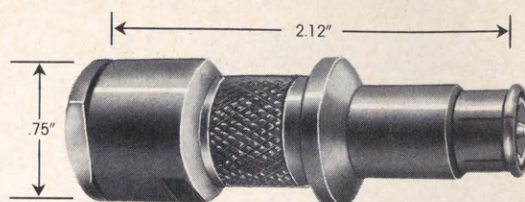
LPH-50 50Ω



PATCH PLUG

Without locking sleeve

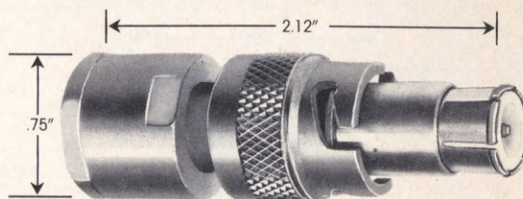
PL93-Δ 50Ω



PATCH PLUG

With locking sleeve

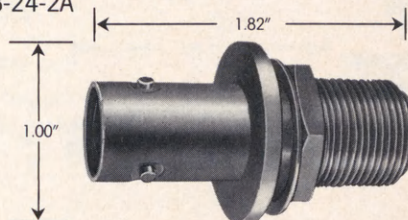
PL94-Δ 50Ω



PATCH JACK TO "N" JACK

Threaded .63-24-2A

J94 50Ω



CC1.312*



PANELS FOR J94

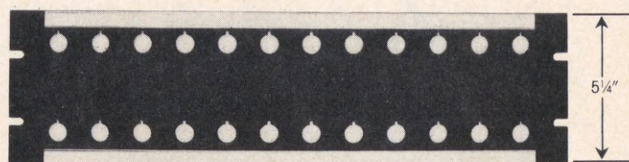
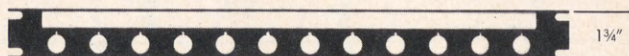
12 hole, open notch, aluminum
12 hole, closed notch, insulated
24 hole, open notch, aluminum
24 hole, closed notch, insulated

JSH-12

JSHI-12

JSH-24

JSHI-24



* - Mounting Holes page 58

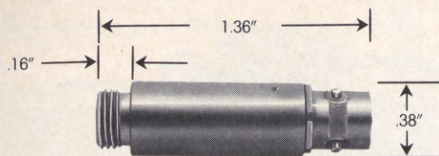
COAX PATCHING

Miniature Coax Patch Jacks & Plugs 50Ω

MINIATURE PATCH JACK

J8 50Ω

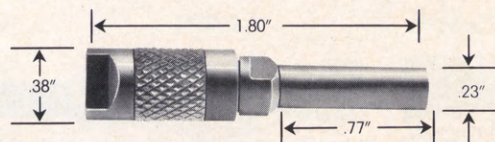
TPS Female, Threaded panel mounting .312-32-2A



MINIATURE PATCH PLUG

PL3-△ 50Ω

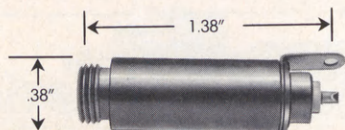
Cable entry (Group 4 only), Field Serviceable



MINIATURE PATCH JACK

J8D 50Ω

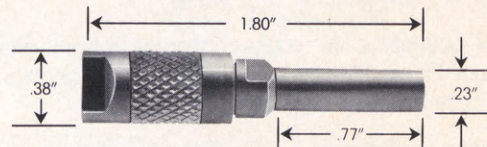
Solder pot



MINIATURE PATCH PLUG

PL3C-△ 50Ω

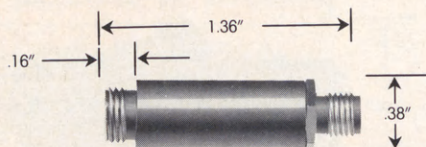
Shield Crimp



MINIATURE PATCH JACK

J308 50Ω

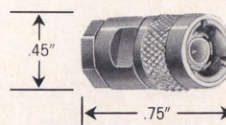
TCM Female



CABLE PLUG

Wrench Crimp

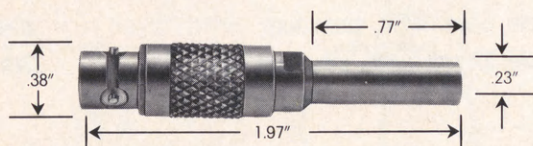
TPS 3-lug PL50-△ 50Ω
TCM Threaded PL350-△ 50Ω



ADAPTER MINIATURE

ADM1 50Ω

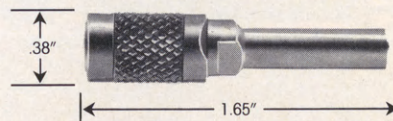
Patch Plug to TPS



MINIATURE RFI JACK CAP

RFI50-1 50Ω

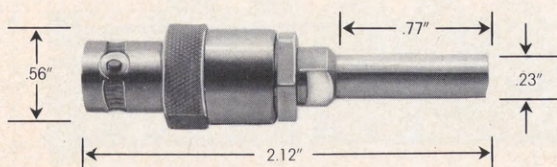
No chain
Chain options page 34



ADAPTER MINIATURE

ADM2 50Ω

Patch Plug to BNC



**Additional Terminations
& RFI Caps
Page 32**

**Custom Patch Cords
& Cable Assemblies
made with Trompeter components
Page 6**

△- Cable Group # page 33, Panels page 51

COAX PATCHING

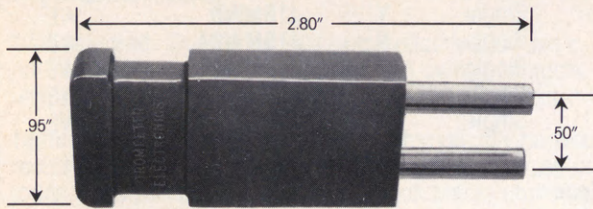
Miniature Coax Patching Accessories 50Ω

COAX PATCHING

MINIATURE LOOPING PLUG

LPM-Z 50Ω

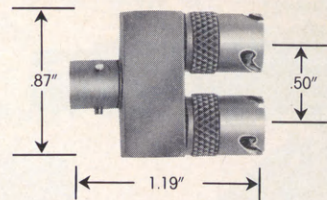
Handle color: Green = 50Ω Violet = 75Ω White = 93Ω



TPS FIXED PARALLELING

PNM2 50Ω

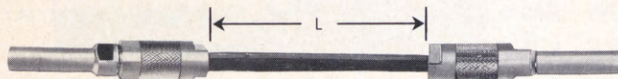
One jack, Two plugs



MINIATURE PATCH CORD

PCM-L-Z 50Ω

Miniature patch plugs

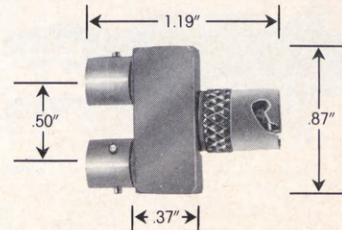


TPS FIXED PARALLELING

PNM2A 50Ω

Two jacks, One plug

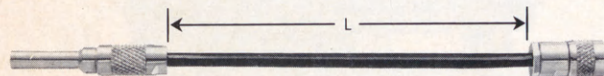
For JS-32, JSI-32, JS-96B, and JSI96B panels only



CABLE ASSEMBLY

PCMX-L-Z 50Ω

Miniature patch plug to TPS plug



MINIATURE RANDOM PARALLELING

TPS plugs/jacks

Two plugs, One jack

Three plugs, No jacks

Four plugs, No jacks

PNM2B-Z 50Ω

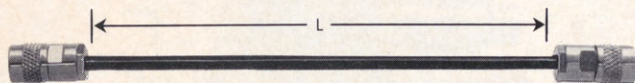
PNM3-Z 50Ω

PNM4-Z 50Ω

CABLE ASSEMBLY

PCMY-L-Z 50Ω

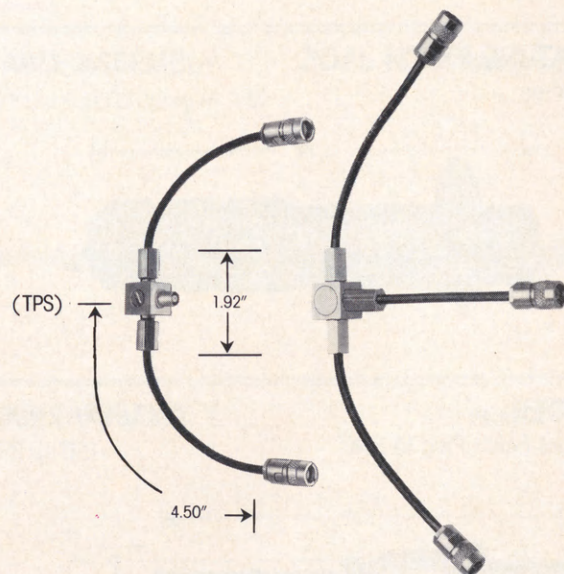
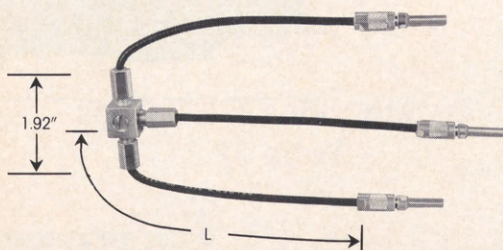
TPS plug to TPS plug



TRIPLE PARALLEL PATCH CORD

PCSM3-L-Z 50Ω

Miniature patch plugs



L - Length in inches, Z - Cable Impedance 50, 75 & 93Ω, Panels page 57

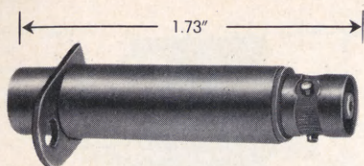
COAX PATCHING

Western Electric Miniature Coax Patch Jacks 75Ω

MINIATURE PATCH JACK

TPS

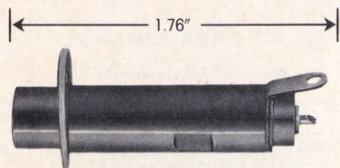
J11 WE



MINIATURE PATCH JACK

Solder pot

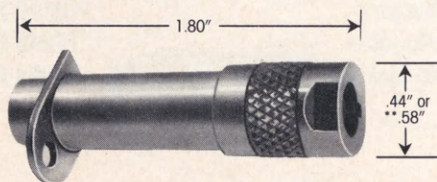
J11D WE



MINIATURE PATCH JACK

Cable entry, Field serviceable
Replacement for WE 560A Minimum .64" centers

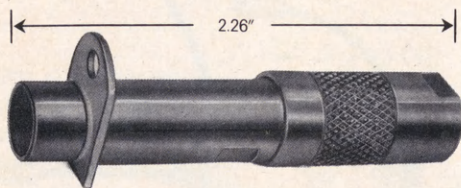
J12-△ WE



MINIATURE PATCH JACK

Tool Crimp

J12C-△ WE



DUAL MINIATURE PATCH JACK

J15W Series

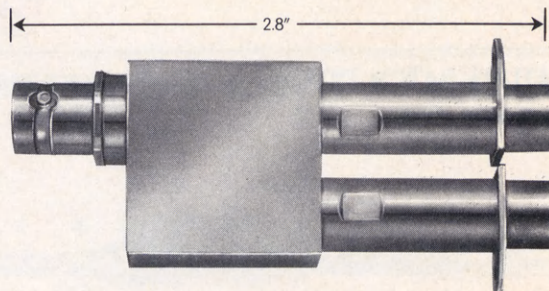
Entry

Type

Prewired?

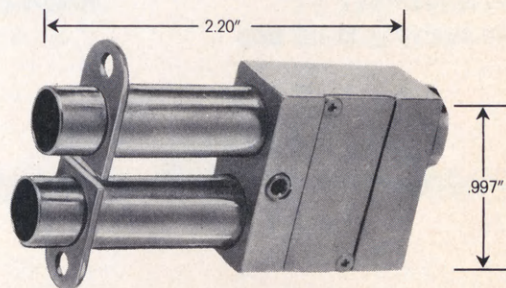
BNC	Single	Y	J15MWB	WE
BNC	Single	N	J15MWBA	WE
TPS	Single	Y	J15MWTPS	WE
TPS	Single	N	J15MWTPSA	WE
Cable	Single	N	J15MW-△	WE

BNC Type



Cable Entry

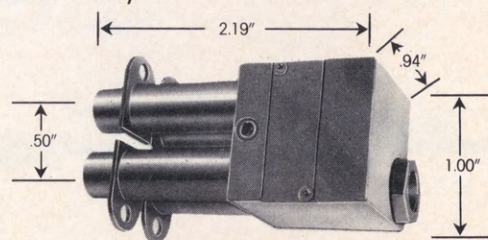
Normally one rear entry connection.
Provisions for one or two coax/twinax cables.



QUAD MINIATURE PATCH JACK

Cable rear entry

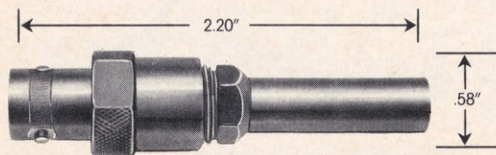
J16MW-△ WE



ADAPTER

Miniature Patch Plug to BNC

ADMW12 WE



TPS Cable Plugs
Page 31

Terminations & RFI Caps
Page 32

△- Cable Group # page 33, Panels page 58

COAX PATCHING

Western Electric Miniature Coax Patching 75Ω

NORMAL-THROUGH PATCH JACK

J18 Series

TPS Rear Connection

J18

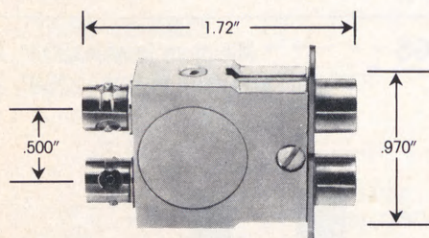
Unterminated: Dual coax jack automatically provides a normal-through signal path. Normalizing switch contacts utilize a unique self-wiping action for positive contact.

Terminated Version: Plug insertion automatically provides a resistive load to the unused side. Patched out sources and loads are automatically switched "break before make" and terminated into a specified resistance.

Monitor, Monitor-Terminated and Crimp versions are available. Call factory.

Mounting tabs are normally back-to-back. For side-to-side tabs for horizontal mounting add the letter "L" to the part number for left-hand tabs or "R" for right-hand tabs.

Unterminated	TPS	J18	WE
Terminated	TPS	J18T-R	WE
Unterminated	TCM	J318	WE
Terminated	TCM	J318T-R	WE



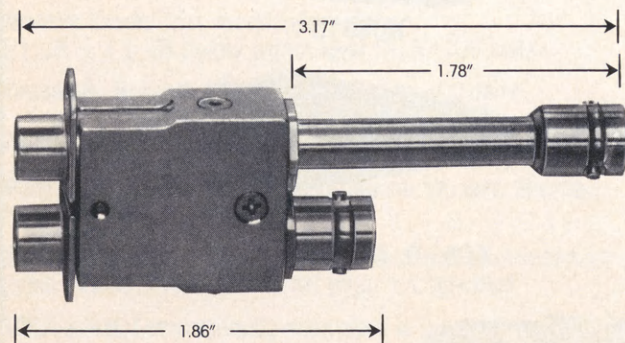
BNC/TNC Rear Connection

J18B

Dual Video Jack

Consult factory for versions for serial digital applications.

Unterminated	BNC	J18B	WE
Terminated	BNC	J18BT-R	WE



For Schematics see page 9.

MINIATURE LOOPING PLUGS

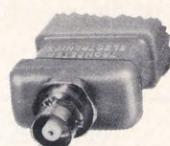
75Ω

Handle

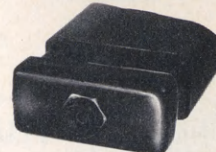
Plain	A	2.95"
Plain		2.21"
Test Point Monitor		2.95"
TPS Monitor		2.95"

LPMW-Z	WE
LPMWS-Z	WE
LPMWTP-Z	WE
LPMWA-Z	WE

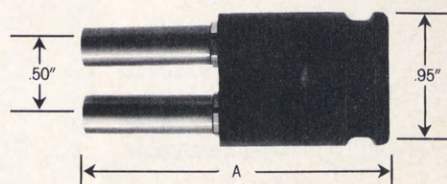
TPS Monitor



Test Point Monitor



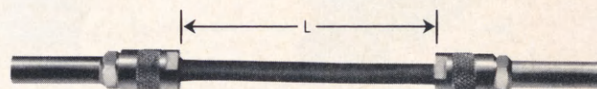
Plain Handle



MINIATURE PATCH CORD

PCMW-L-Z WE

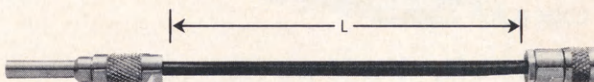
Miniature patch plugs



CABLE ASSEMBLY

PCMWX-L-Z WE

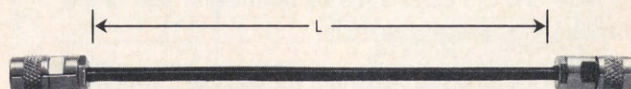
Miniature patch plug to TPS



CABLE ASSEMBLY

PCMY-L-Z WE

TPS to TPS



L - Length in inches, R - Resistance 50Ω, 75Ω & 93Ω (.5 W 2%), Z - Cable Impedance, Panels page 58

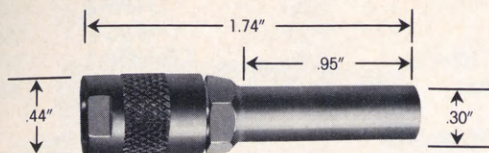
COAX PATCHING

Western Electric Miniature Coax Patch Jacks 75Ω, Bend Relief Springs/Boots

MINIATURE PATCH PLUG

PL11-△ WE

Recommended for use on panels with a minimum of .62" between centers.

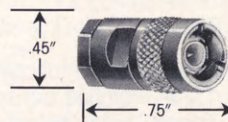


CABLE PLUG

PL50-△

Wrench Crimp

Mates with J11, J15 and J18 jacks.

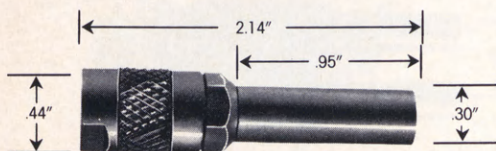


MINIATURE PATCH PLUG

PL11C-△ WE

Crimp (WE440)

Recommended for use on panels with a minimum of .62" between centers.



*.58" dia. for cable grps 015, 016, and 020

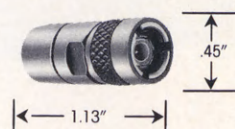


TERMINATION

TNB1-1-R

TPS, No chain

Chain versions page 34

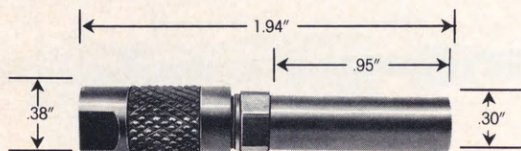


TERMINATION

TPMW-1-R WE

Miniature patch plug
No chain

Chain versions page 34



HOLE PLUGS

Miniature jacks .304" HP304

Miniature panels .358" HP358



Panels page 54



BEND RELIEF Boots/Springs: minimize cable damage when exceeding the cable's minimum bend radius.

Bend relief boots are made of tough 105° PVC and are standard on the patch plug connectors on the following 75Ω coax patch cords:

PC-L-75, PCW-L-75, PCX-L-75 and PCWX-L-75.

Bend relief boots are available for specific Trompeter connectors, patch cords and cable assemblies and may be assembled to the cable/connector using 3M ScotchGrip™ No. 1099 plastic adhesive or equivalent.

Bend Relief Springs are made from plastic-coated tempered steel wire and are assembled as an integral part of the connector clamp nut assembly.

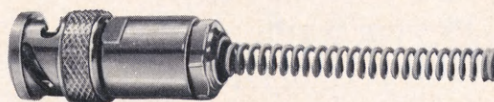
Bend relief springs are available for specific Trompeter connectors, patch cords and cable assemblies.



AKB013-7



ACA1-0, ACA2-0, ACA5-0



See Connector Compatibility Tables on page 33 and contact the factory for availability.



△ - Cable Group # page 33, R - Resistance 50Ω, 75Ω & 93Ω (1/2 W 2%)

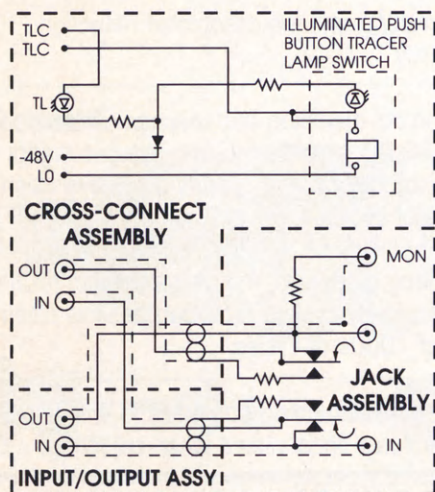
COAX PATCHING

DSX Cross-Connect Module

DESIGN FEATURES:

- Tracer lamp front and rear of module
- 180° tracer lamp on front
- Interchangeable with ADC's DSX-4M
- 50M gold-plated contacts
- Contacts designed with wiping action
- Module enclosed on all sides
- 19" and 23" chassis available**
- Extended bandwidth: 400 MHz performance

Circuit Schematic



TRANSMISSION CHARACTERS

Insertion Loss: 0.3 dB typical
Less than 1 dB, DC through 400 MHz all ports

Return Loss: 22dB typical
Greater than 25 dB, DC through 175 MHz
Greater than 20 dB, DC through 400 MHz

Monitor Level: 75Ω monitor termination
21 dB $\pm$ 1.5 dB below signal level DC to 400 MHz

Crosstalk: Better than 60 dB isolation to 400 MHz

INTERFACE CHARACTERISTICS

Patch Plugs (Front): Patch jacks require Western Electric type Miniature 75Ω plugs

Mating Connectors (Rear): Input/output and cross-connect jacks require 75Ω BNC or TNC plugs as specified

TDSX-3/4H: Dimensionally equivalent to and can replace the ADC DSX-4M (rear cross-connect) in the ADC chassis.

Consult the factory for high density versions.

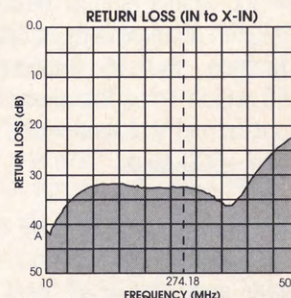
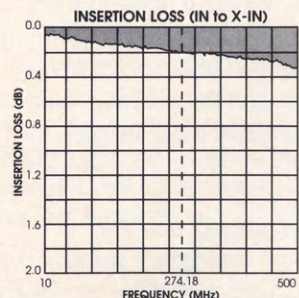
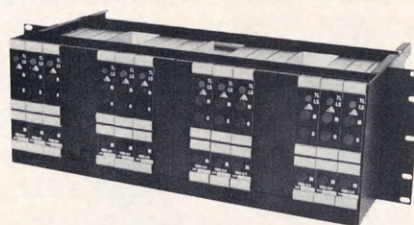
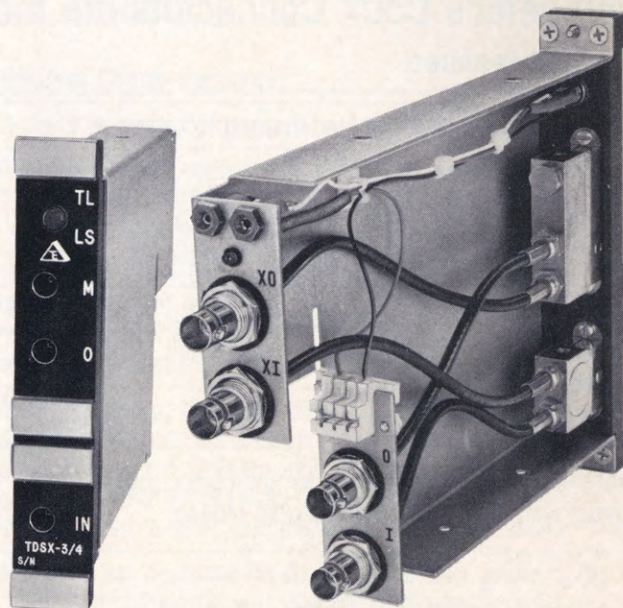
CROSS-CONNECT MODULE

BNC rear entry
TNC rear entry

TDSX-3/4 75Ω
TDSX-3/4H 75Ω

The TDSX-3/4 module is designed for accessing and cross-connecting the following DS transmissions:

DS4	274 Megabits
DS-4E	139 Megabits
DS-3	45 Megabits



See Telecom Applications Page 4

COAX CONNECTORS

Coax Connectors Introduction

Trompeter's quality coax connectors are designed with "unique features" to provide:

- Superior mechanical performance for reliability and durability
- Simple construction for fast, easy assembly • Excellent electrical performance

Broadcast and Telecom Applications - Page 4

Custom Adapters - Page 52

Performance Specifications - Page 66

Trompeter's Coax Connectors are made with the following design features:

Standard Features:

Benefits:

All metallic parts are **machined/formed** to extremely close tolerances.

Better intermateability. Improves EMI/RFI suppression and reduces signal loss.

All bodies are made of **top quality brass** with a **bright nickel-plated**, non-tarnish finish, standard.

Resists tarnishing and the associated reduction of conductivity.

Fully enclosed **heat-treated beryllium-copper** outer conductor spring. Not half-hard slotted brass. Patented feature!

Prevents contact distortion and mechanical damage. Improves EMI/RFI suppression and reduces signal loss. Improves durability cycling providing positive electrical over 1000s of cycles.

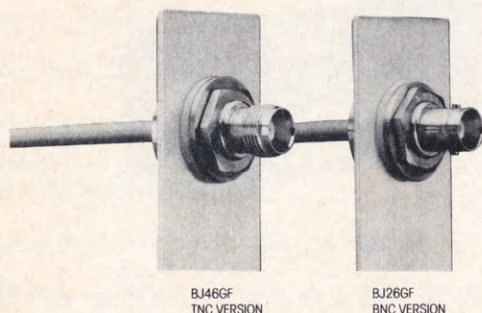
Heat-treated beryllium-copper female center socket contact with **50 millionths inch gold plating**.

Superior spring properties, maintains contact resilience. Improves durability cycling providing positive electrical contact over 1000s of cycles.

All dielectrics are made of **machined Teflon™**.

Superior Teflon™ insulating properties to withstand the high temperatures encountered when soldering.

COAXIAL GROUND FILTER BULKHEAD JACKS



These connectors reduce radiated electrical noise to meet the EMI/RFI requirements of the FCC regulation on **RFI interference - Part 15, Subpart J**, as a result of Docket 20780 which limits the allowable emissions from computers and their peripheral equipment to a range of 20 to 1000 MHz.

Radiated interference from HF components and the harmonics of an electrical pulse are avoided by using a **built-in capacitor** which acts as **high pass filter** to attenuate spurious HF signals while avoiding ground loop direct contact current flow by bypassing the signals harmlessly to the ground.

Connectors with Ground Filter versions are designated by "**GF**" with part numbers listed on page 27.

GROUND FILTER SPECIFICATIONS:

RF Insertion Loss: 0.1 dB max. to 1 GHz

Dissipation Factor: 5% max. @ 1 KHz & 25°C

Voltage Rating: 200 VDC @ sea level & 25°C

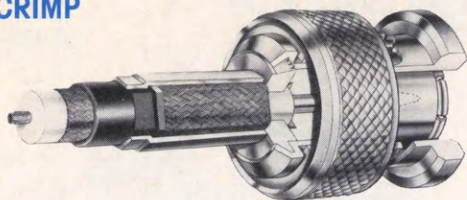
Capacitance: 4nF min., 10nF max. @ 1 KHz & 25°C

Insulation Resistance:
1 Gigohm min. @ 200 VDC & 25°C

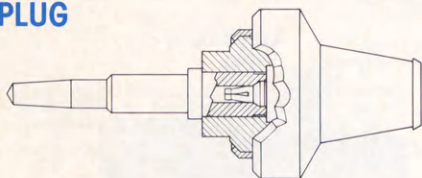
Dielectric Withstanding Voltage:
500 VDC @ sea level & 25°C for 1 minute

Filter RF Attenuation:
1 MHz - 1 dB, 3 MHz - 2 dB, 10 MHz - 8 dB
30 MHz - 16 dB and 100/300/1000 MHz - 30 dB

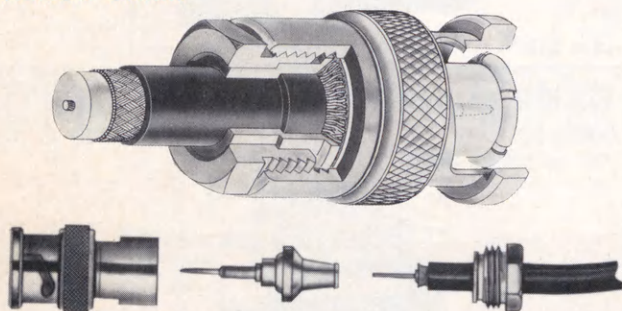
TOOL CRIMP



QUICK PLUG



WRENCH CRIMP



TOOL CRIMP COAX CONNECTORS

These connectors are designed for **fast, reliable** and **durable** terminations with a pull-to-destroy force approaching the tear strength of the cable itself! Exceeds MIL-C-39012B, category "D" requirements!

Tool Crimp Features:

3-piece construction for easy assembly.

A **captive center contact pin** with **50 millionths inch gold plating** prevents the pistoning of the center contact when the cable is flexed and does not rely on the cable for positioning.

The coupling sleeve is **spring-loaded** with a **beryllium copper crescent washer** to assure full mating, reduced rocking when the connector is mated and to assure that mating is maintained in rugged applications.

A full **.500 inch crimp sleeve** and a **.300 inch ferrule** provides a longer crimp area for the connector-to-cable mechanical crimp to increase the tensile pull-strength of the termination.

A **step** in the **crimp sleeve** grips the outer jacket to increase the pull-strength of the termination.

Radial and axial grooves on ferrule prevent movement of the cable braid.

WRENCH CRIMP COAX CONNECTORS

These are **rugged, dependable** connectors with superior electrical and mechanical performance. This series uniquely holds TFE and similarly jacketed cable without additional hardware and is **equally effective** when used with **double braided cable** such as the RG223.

This **unique combination of features** results in a required **connector-to-cable pull-to-destroy force** approaching the tear strength of the cable itself.

Wrench Crimp Features:

3 piece construction for fast easy assembly.

A **captive center contact pin** in the cone assembly prevents the pistoning of the center contact when the cable is flexed and does not rely on the cable for positioning.

The coupling sleeve is **spring-loaded** with a **beryllium-copper crescent washer** to assure full mating, reduced rocking when the connector is mated and to assure that mating is maintained in rugged applications.

A **freely rotating captured insert** inside the coupling nut assembly permits the clamping of the braid without any rotary movement. This prevents the breaking of the center conductor and the twisting/tearing of the outer braid. Increases the tensile pull strength of the termination.

A **step** in the **captured insert** grips the outer jacket of the cable to increase the pull strength of the termination. (Outer jacket - Up to 25% of the strength of the cable.)

The **360° metal-to-metal capture of the outer-braid** to the cone assembly leaves no insulation between the clamping surfaces and provides a true metal-to-metal continuous shield minimizing EMI/RFI problems. This also minimizes the "cold flow" problems associated with **TFE type** jacketing and increases the pull-strength of the termination.

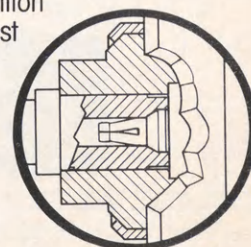
The **machined barb** on the end of the cone assembly grabs the inside of the braid to help hold the assembly in place for easier assembling. The additional grip also enhances the strength of the braid and jacket clamp to increase the pull-strength of the termination.

QUICK PLUG VERSIONS!

Trompeter has designed "**Quick Plug**" versions for BNC/TNC **Wrench Crimp** cable plugs and RG59, solid center conductor wire. The connector utilizes a **solderless, scratch-free** center conductor retention clamp in the cone assembly for fast positive terminations.

Available versions referenced by "**QP**"

For RG-62 cable cut center conductor wire diagonally.



COAX CONNECTORS

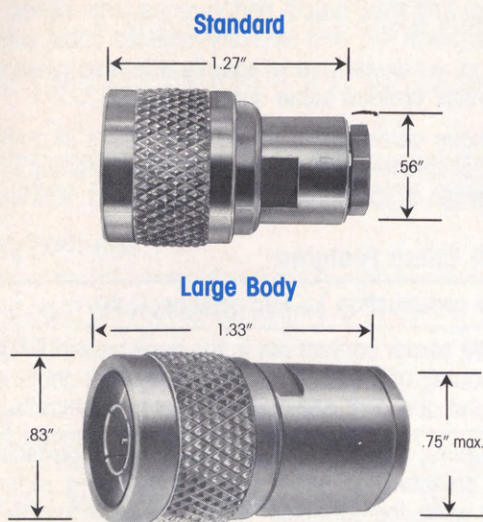
Standard Coax Threaded 95 Series, N Connectors

CABLE PLUG

Wrench Crimp

PL95- Δ 50 Ω

UPL95- Δ 75 Ω

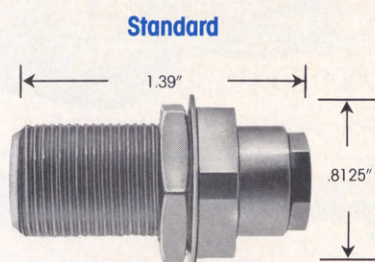


BULKHEAD CABLE PLUG

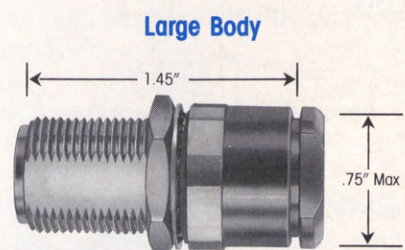
Wrench Crimp

BJ95- Δ 50 Ω

UBJ95- Δ 75 Ω



DD1.203

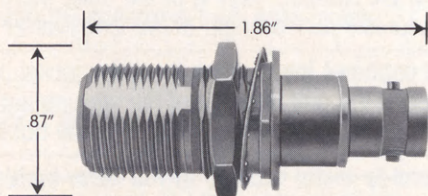


DD4.310*

BNC ADAPTER

AD95 50 Ω

UAD95 75 Ω



DD4.203*

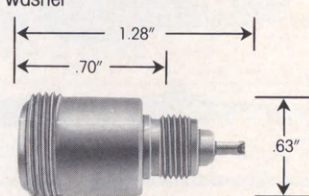


BULKHEAD JACK

Solder pot
With hex nut and washer

J95- Δ 50 Ω

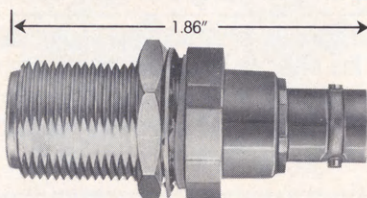
UJ95- Δ 75 Ω



INSULATED BNC ADAPTER

AD195 50 Ω

UAD195 75 Ω



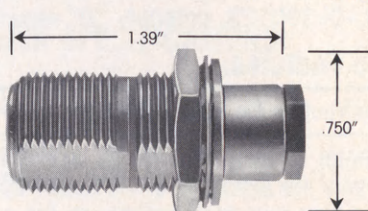
DD4.31*

INSULATED BULKHEAD CABLE JACK

Wrench Crimp

BJ96- Δ 50 Ω

UBJ96- Δ 75 Ω



DD4.203*

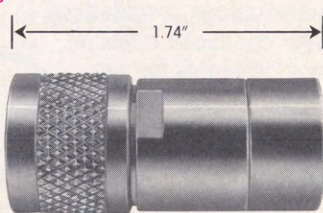
TERMINATION PLUG

No Plug, No Chain

Chain version page 32

TNN1-1 50 Ω

UTNN1-1 75 Ω

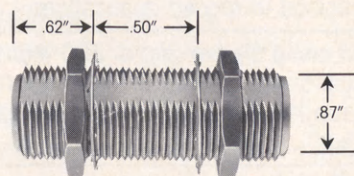


FEED-THROUGH JACK

Panels up to 2.25" thick

BJ98-2 50 Ω

UBJ98-2 75 Ω



Δ - Cable Group # page 33, * Mounting Holes page 58, Tools page 51

COAX CONNECTORS

Miniature Coax 20/220 Series, BNC Plugs & Jacks

COAX CONNECTORS

CABLE PLUG

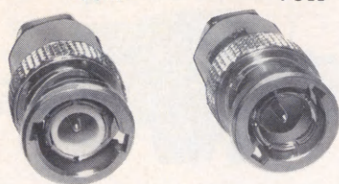
Wrench Crimp

PL20-△ 50Ω

UPL20-△ 75Ω

50Ω

75Ω



QP20 - Quick Plug (50Ω only)

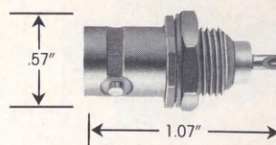


BULKHEAD JACK

Front Mount, Solder pot

BJ20 50Ω

UBJ20 75Ω



D5.125 *

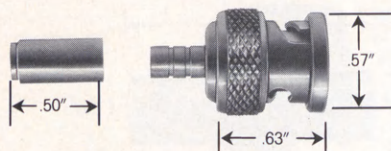


CABLE PLUG

Tool Crimp

PL220-△ 50Ω

UPL220-△ 75Ω



CABLE JACK

Wrench Crimp

CJ20-△ 50Ω

UCJ20-△ 75Ω

50Ω

75Ω

50" *



*.57" Cable Groups 6 & 6E

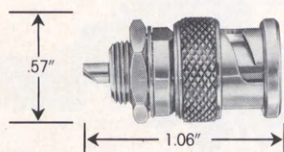


BULKHEAD PLUG

Front Mount, Solder pot

PL21 50Ω

UPL21 75Ω



C2.085 *

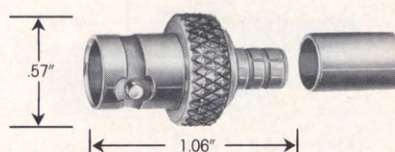


CABLE JACK

Tool Crimp

CJ220-△ 50Ω

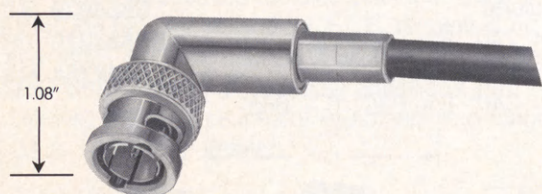
UCJ220-△ 75Ω



RIGHT ANGLE CABLE PLUG

UPLRN220-△ 75Ω

Full Crimp Non-Enclosed Spring Fingers
Consult Factory for 50Ω

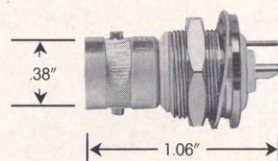


INSULATED BULKHEAD JACK

Rear Mount, Solder pot

BJ21 50Ω

UBJ21 75Ω



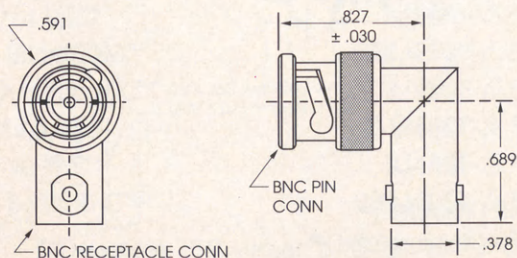
D3.147 *



RIGHT ANGLE ADAPTER

BNC

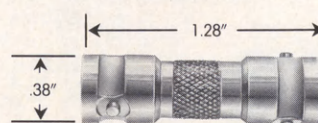
UADRNMF20 75Ω



BNC COUPLING ADAPTER

AD28 50Ω

UAD28 75Ω



△- Cable Group # page 33, GF page 27, * Mounting Holes page 58, Crimp Tools page 51

COAX CONNECTORS

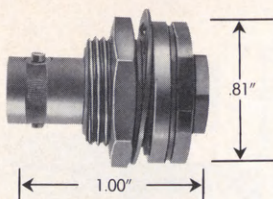
Miniature Coax 20/220 Series, BNC Bulkhead Jacks

INSULATED BULKHEAD CABLE JACK

Wrench Crimp, Rear Mount

BJ26- Δ 50 Ω

UBJ26- Δ 75 Ω



"GF"

D2.143*

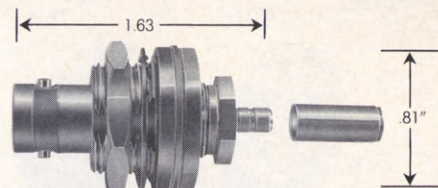


INSULATED BULKHEAD CABLE JACK

Rear Mount, Tool Crimp

BJ226- Δ 50 Ω

UBJ226- Δ 75 Ω



"GF"

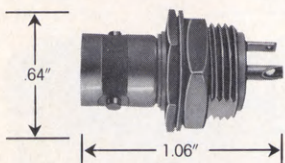
D2.143*

INSULATED BULKHEAD JACK

Front Mount, Solder pot

BJ27 50 Ω

UBJ27 75 Ω



D3.147*

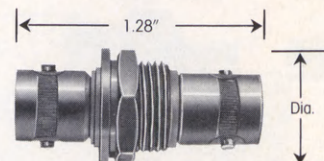


INSULATED BULKHEAD

Feed-through Jack

BJ28 50 Ω

UBJ28 75 Ω



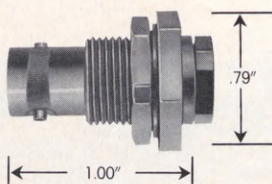
D3.156*

BULKHEAD CABLE JACK

Rear Mount

BJ29- Δ 50 Ω

UBJ29- Δ 75 Ω



D3.218*

D2.218 (Gps 6 & 6E)*

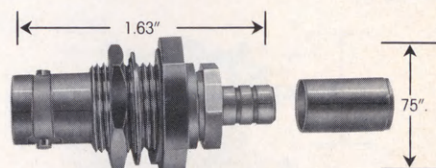


BULKHEAD CABLE JACK

Rear Mount, Tool Crimp

BJ229- Δ 50 Ω

UBJ229- Δ 75 Ω



D3.218*

D2.218 (Gps 6 & 6E)*

RECEPTACLE

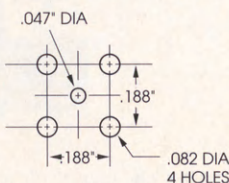
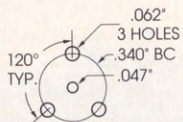
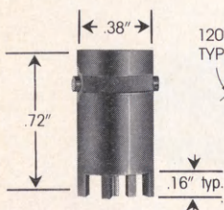
Circuit Board

3-leg CBJ20 50 Ω

3-leg UCBJ20 75 Ω

4-leg CBJ22 50 Ω

4-leg UCBJ22 75 Ω



RIGHT ANGLE CIRCUIT BOARD BULKHEAD JACK

Insulated

CBBJR26 50 Ω

H = .240", E = .0625", C = .565"

UCBBJR26 75 Ω

Non-Insulated

H = .240", E = .0625", C = .565"

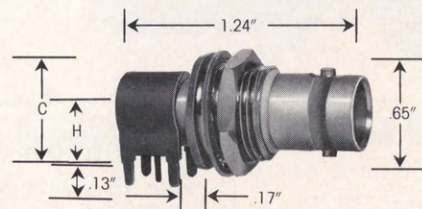
CBBJR29 50 Ω

UCBBJR29 75 Ω

Add "A" for Tall Version

Ex.: CBBJR26A 50 Ω

H = .340", E = .070", C = .665"



RIGHT ANGLE CIRCUIT BOARD JACK

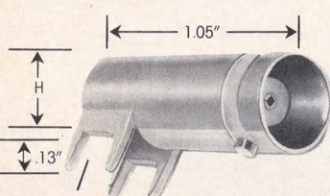
CBJR20 50 Ω

H = .240", E = .0625"

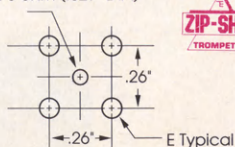
Add "A" for Tall Version

H = .340", E = .070"

UCBJR20 75 Ω



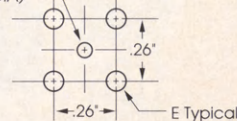
A = 50 ohm (.046" DIA)
75 ohm (.029" DIA)



D3.156 (Insulated)*

D3.179 (Non-insulated)*

A = 50 ohm (.046" DIA)
75 ohm (.029" DIA)



Δ - Cable Group # page 33, * Mounting Holes page 58, Crimp Tools page 51

COAX CONNECTORS

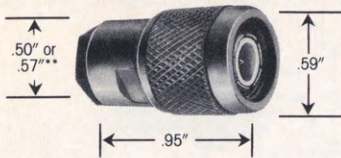
Miniature Coax Threaded 40/240 Series, TNC Plugs & Jacks

COAX CONNECTORS

CABLE PLUG

Wrench Crimp

PL40-△ 50Ω
UPL40-△ 75Ω



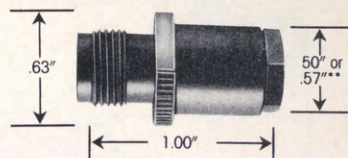
QP40 - Quick Plug (50Ω only)



CABLE JACK

Wrench Crimp

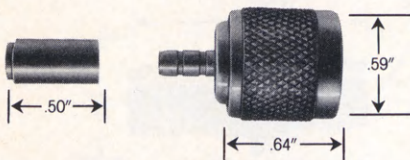
CJ40-△ 50Ω
UCJ40-△ 75Ω



CABLE PLUG

Tool Crimp

PL240-△ 50Ω
UPL240-△ 75Ω



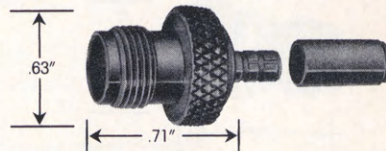
MIL-C-39012/26D



CABLE JACK

Tool Crimp

CJ240-△ 50Ω
UCJ240-△ 75Ω



BULKHEAD PLUG

Front mount, Solder pot

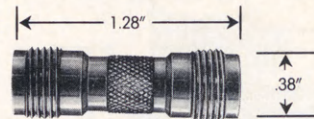
PL41 50Ω
UPL41 75Ω



C2.085 *

TNC COUPLING ADAPTER

AD48 50Ω
UAD48 75Ω



COAXIAL GROUND FILTER BULKHEAD JACKS

Designated in catalog pages by "GF"

These connectors reduce radiated electrical noise to meet the EMI/RFI requirements of the F.C.C. regulation on RFI interference - Part 15, Subpart J, as a result of Docket 20780 which limits the allowable emissions from computers and their peripheral equipment to a range of 20 to 1000 MHz Wrench.

Type

- Crimp BNC**
- Tool Crimp BNC**
- Feed Thru BNC**
- Circuit Board BNC**
- Wrench Crimp TNC**
- Tool Crimp TNC
- Feed Thru TNC**
- Circuit Board TNC**

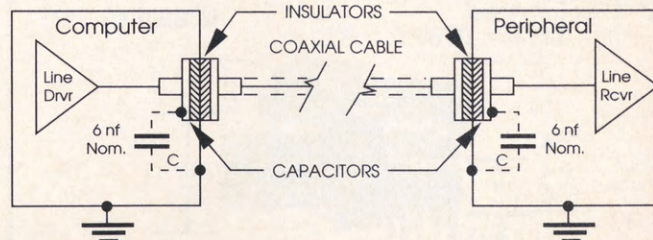
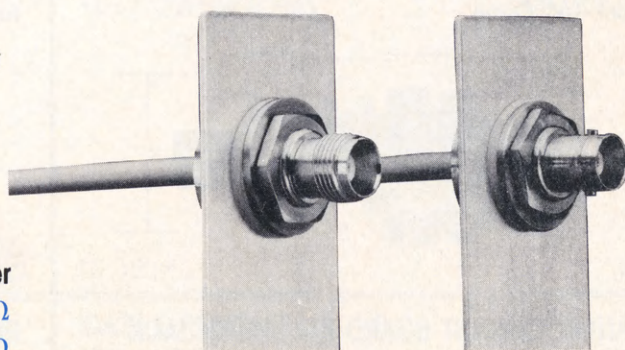
Part Number

- BJ26GF-△ 50Ω
- BJ226GF-△ 50Ω
- BJ28GF-△ 50Ω
- CBBJ26GF-△ 50Ω
- BJ46GF-△ 50Ω
- BJ246GF-△ 50Ω
- BJ48GF-△ 50Ω
- CBBJ46GF-△ 50Ω

**Designate 75Ω version by prefix "U"

TNC Version

BNC Version



△- Cable Group # page 33, QP page 23, * Mounting Holes page 58, Crimp Tools page 51

COAX CONNECTORS

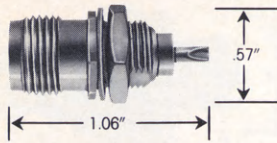
Miniature Coax Threaded 40/240 Series, TNC Bulkhead Jacks

BULKHEAD JACK

Solder pot

BJ40 50Ω

UBJ40 75Ω



D5.125 *

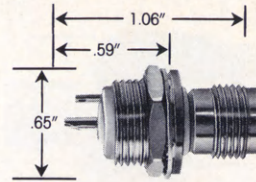


INSULATED BULKHEAD JACK

Front Mount, Solder pot

BJ47 50Ω

UBJ47 75Ω



D3.147 *

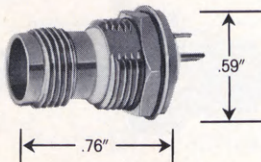


INSULATED BULKHEAD JACK

Rear Mount, Solder pot

BJ41 50Ω

UBJ41 75Ω

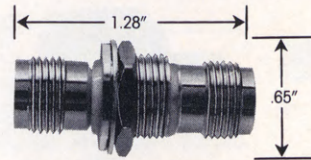


D3.147 *

INSULATED FEED-THROUGH BULKHEAD JACK

BJ48 50Ω

UBJ48 75Ω



"GF"

D3.156 *

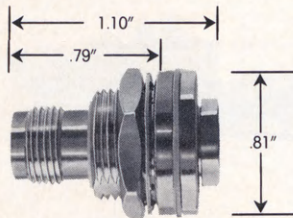


INSULATED BULKHEAD JACK

Rear Mount, Wrench Crimp

BJ46-Δ 50Ω

UBJ46-Δ 75Ω



"GF"

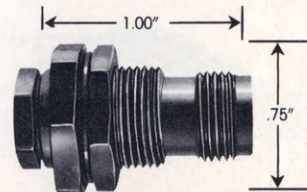
D2.143 *

BULKHEAD CABLE JACK

Wrench Crimp

BJ49-Δ 50Ω

UBJ49-Δ 75Ω



D3.218 *

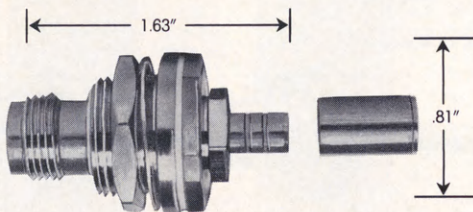
D2.218 (Gp 6 & 6E) *



INSULATED BULKHEAD JACK

Rear Mount, Tool Crimp

BJ246-Δ 50Ω



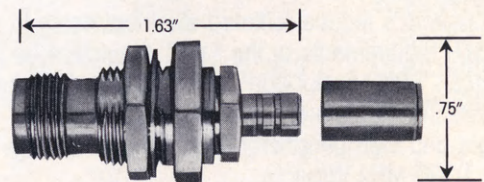
"GF"

D3.147 *

BULKHEAD CABLE JACK

Tool Crimp

BJ249-Δ 50Ω



D3.218 *

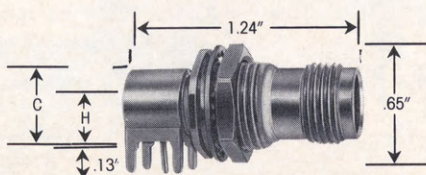
D2.218 (Gp 6 & 6E) *

RIGHT ANGLE CIRCUIT BOARD BULKHEAD JACK

H = .24", E = .0625", C = .57"
Add "A" for Tall Version
H = .34", E = .070", C = .67"

CBBJR46 50Ω

UCBBJR46 75Ω



RFI PLUG CAP

2.5" Nylon Chain

Other Chain versions page 32.

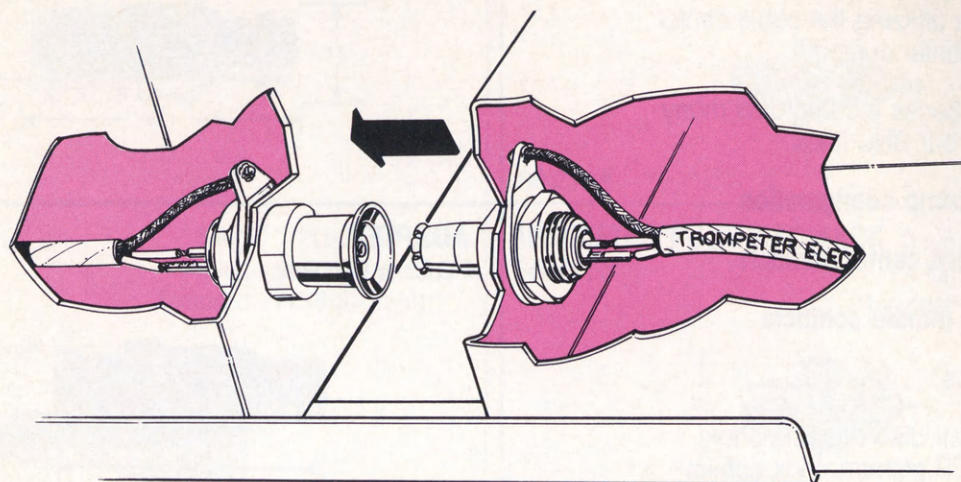
RFI45-3



Δ- Cable Group # page 33, "GF" page 27, * Mounting Holes page 58, Crimp Tools page 51

TROMPETER'S 120 SERIES

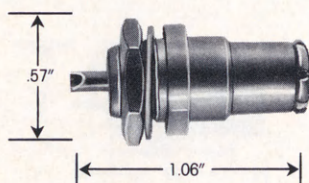
These BNC/TNC push-on jacks and plugs are designed for blind mate rack and panel applications. The male plugs mate with any BNC/TNC jack and are ideally suited for test/probe applications.



PANEL PLUG

Solder pot

PL121 50Ω
UPL121 75Ω



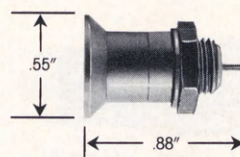
C2.085 *



BULKHEAD JACK

Solder Lug

BJ120 50Ω
UBJ120 75Ω



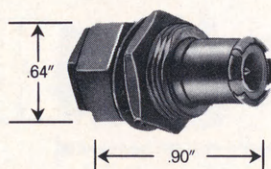
C1.120 *



PANEL PLUG

Cable Entry

PL122-△ 50Ω
UPL122-△ 75Ω



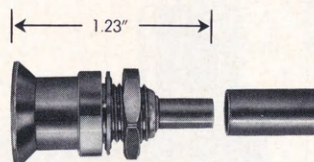
DD5.156 *



BULKHEAD JACK

Tool Crimp Solder Entry

BJ120C-△ 50Ω
UBJ120C-△ 75Ω

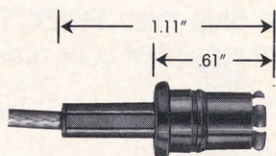


C1.120 *

CABLE PLUG

Tool Crimp

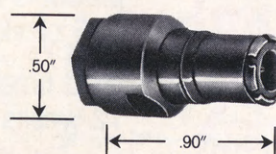
PL223-△ 50Ω
UPL223-△ 75Ω



CABLE PLUG

Wrench Crimp

PL123-△ 50Ω
UPL123-△ 75Ω



△- Cable Group # page 33, * Mounting Holes page 58, Crimp Tools page 51

COAX CONNECTORS

Miniature Coax Threaded 130 Series, F Connectors

TROMPETER'S 130 SERIES

The F connector has traditionally been a low cost plier-crimp device utilizing the cable center conductor for a center contact.

Trompeter's 130 Series incorporates many of the features of our BNC lines.

3-piece wrench crimp configuration

Gold plated captive center contacts

Beryllium copper female contacts

Teflon™ dielectrics

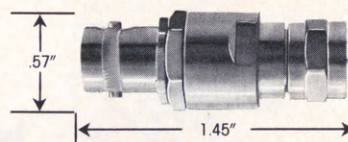
The 130 Series will also accommodate non-flammable FEP plenum coax cables

Cable Tables pages 62-65

ADAPTER

F Plug to BNC Jack

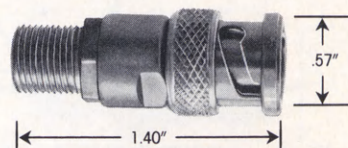
AD130 75Ω



ADAPTER

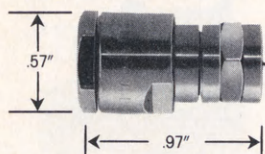
F Jack to BNC Plug

AD133 75Ω



MALE CABLE PLUG

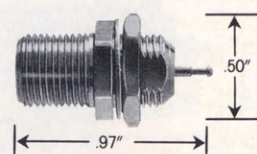
PL130-Δ 75Ω



BULKHEAD CABLE JACK

Solder lug

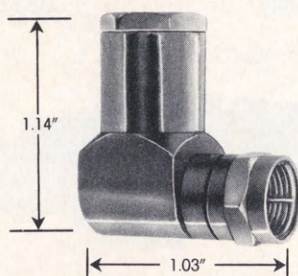
BJ130 75Ω



DD2.094 *

RIGHT ANGLE MALE CABLE PLUG

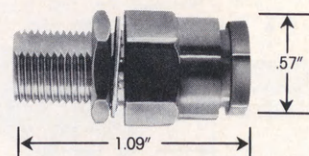
PL131 75Ω



BULKHEAD CABLE JACK

Wrench Crimp

BJ139 75Ω



DD2.125 *

OBSESSION: On-Time Delivery

Zip Ship Service



Remember . . . the **ZIP-SHIP** symbol means that we can **Zip** stock products from our expanded inventory and **Ship** them **FedEx, DHL, UPS** or via your routing within 24 hours of receipt of your order!

Lead times for many Non-stock or Custom items have been cut from 12 weeks to 8 weeks or less!

Ask about ZIP-SHIP Service when you phone in your order.

Δ- Cable Group # page 33, * Mounting Holes page 58

COAX CONNECTORS

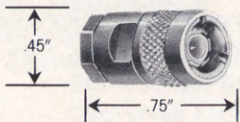
Sub-Miniature Coax Threaded 50/350 Series, TPS/TCM Jacks & Plugs

COAX CONNECTORS

CABLE PLUG

Wrench Crimp

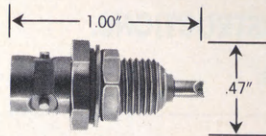
3-lug **PL50- Δ 50 Ω**
4-lug **PL50FL- Δ 50 Ω**
Threaded **PL350- Δ 50 Ω**



BULKHEAD JACK

Solder pot

3-lug **BJ50- Δ 50 Ω**
4-lug **BJ50FL- Δ 50 Ω**
Threaded **BJ350- Δ 50 Ω**

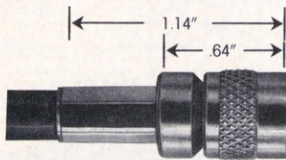


D6.218 *

CABLE PLUG

Tool Crimp

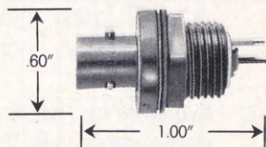
3-lug **PL50C- Δ 50 Ω**
4-lug **PL50CFL- Δ 50 Ω**
Threaded **PL350C- Δ 50 Ω**



INSULATED BULKHEAD JACK

Solder pot

3-lug **BJ57- Δ 50 Ω**
4-lug **BJ57FL- Δ 50 Ω**
Threaded **BJ357- Δ 50 Ω**

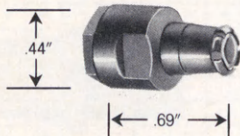


D4.171 *

PUSH-ON PLUG TPS/TCM

Wrench Crimp

PL53- Δ 50 Ω

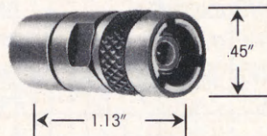


TERMINATION

TPS, No chain

Chain versions page 32

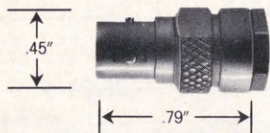
TNB1-1-R



CABLE JACK

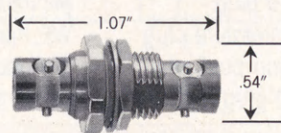
Wrench Crimp

3-lug **CJ50- Δ 50 Ω**
4-lug **CJ50FL- Δ 50 Ω**
Threaded **CJ350- Δ 50 Ω**



FEED-THROUGH BULKHEAD JACK

3-lug **BJ58- Δ 50 Ω**
4-lug **BJ58FL- Δ 50 Ω**
Threaded **BJ358- Δ 50 Ω**

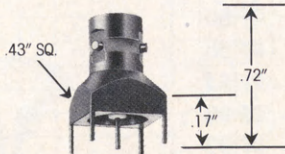
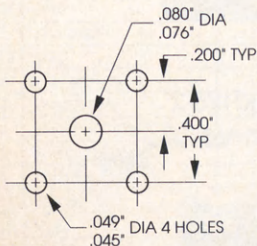


D5.171 *

D4.171 (TCM) *

CIRCUIT BOARD JACK

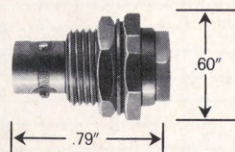
3-lug **CBJ50- Δ 50 Ω**
4-lug **CBJ50FL- Δ 50 Ω**
Threaded **CBJ350- Δ 50 Ω**



BULKHEAD JACK

Wrench Crimp

3-lug **BJ59- Δ 50 Ω**
4-lug **BJ59FL- Δ 50 Ω**
Threaded **BJ359- Δ 50 Ω**



D4.125 *

Δ - Cable Group # page 33, * Mounting Holes page 58, Crimp Tools page 51

COAX CONNECTORS

Coax Terminations & RFI Caps

Trompeter provides Termination and RFI cap versions of many of our connectors. Resistors are normally **.125 watt for subminiature** connectors and **.500 watt for miniature and standard size** connectors with **2% tolerances for all**.

ORDERING INSTRUCTIONS:

For Terminations: Part Number - _____ - _____
Chain # _____
Resistance _____

For RFI Caps: Part Number - _____
Chain # _____

CHAIN NUMBERS:

- | | |
|----------------------|----------------------|
| 1 - No chain | 3 - 2.5" nylon chain |
| 2 - 2.5" brass chain | 5 - 3.0" nylon chain |
| 4 - 3.0" brass chain | 7 - 6.0" nylon chain |
| 6 - 6.0" brass chain | |

*Asterisked connectors: Available in 75Ω version by prefixing
Part number with "U" Ex: **UTNA1-1-Ω**

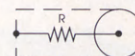
Page	Termination Description	Mating Part	Part Number
25	PL20 BNC*	BNC jacks	TNA1
25	CJ20 BNC*	BNC plugs	TNAF1
29	PL123 BNC/TNC push-on*	BNC/TNC jacks	TNAP1
25	PL220 BNC midget*	BNC jacks	TNAS1
25	CJ220 BNC midget*	BNC plugs	TNASF1
25	PL220 Short push-on*	BNC/TNC jacks	TNASP1
31	PL50 TPS	TPS jacks	TNB1
29	PL130 F	F jacks	TNF1
27	PL40 TNC*	TNC jacks	TNH1
27	CJ40 TNC*	TNC plugs	TNHF1
24	PL95 N*	N jacks	TNN1
24	BJ95 N*	N plugs	TNNBJ1
17	PL94 Precision	J94 jack	TNP1
11	PL1 RCA Standard plug	RCA standard jacks	TP
15	PL3 Miniature plug	Miniature jacks	TPM
20	PL1C1 WE miniature plug	WE miniature jacks	TPMW
17	PL93 Precision push-on	J94 jacks	TPP
11	PL1W WECO plug	WECO standard jacks	TPW

Page	Mating Part	RFI Cap Description	Part Number
11	J3/J3W	Patch Plug cap	RFI20
25	PL20	BNC jack cap	RFI21
25	BJ20	BNC plug cap	RFI25
27	PL40	TNC jack cap	RFI41
27	BJ40	TNC plug cap	RFI45
15	J8	Miniature patch jack cap	RFI50
31	BJ50	TPS plug cap	RFI55
15	J94	PL94 patch plug cap	RFI94
24	BJ95	N plug cap	RFI95
24	PL95	N jack cap	RFI97
29	BJ130	F plug cap	RFI130
31	TPS threaded plug	TPS threaded plug cap	RFI355

TNA1-1-Ω



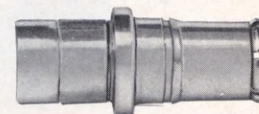
TNAS1-1-Ω



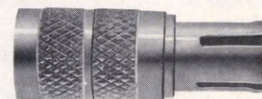
TNAP1-1-Ω



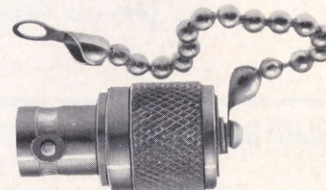
TNASP1-1-Ω



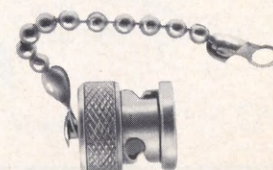
RFI20-1



RFI21-4



RFI25-2



COAX

Cable Group Numbers are provided for over 800 cables from many manufacturers on pages 62-65.

- - Connector available for that cable group.
- - Requires Large Body version of connector.
- ⊕ - Bend Relief Boot Available.
- ◇ - Old-style clamp, not Wrench Crimp.

COAX

COAX

COAX

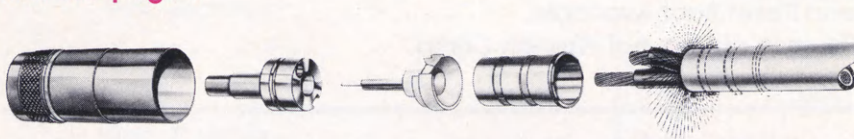
COAX

TWINAX/TRIAX CONCENTRIC CONNECTORS

Introduction

Twinax and Triax connectors are used when signals require protection from extraneous noise through non-signal-carrying shielding. These interfacing connectors provide contact surfaces isolated from each other and from their outer shields. **Trompeter Twinax and Triax connectors have two (2) isolated concentric contacts that are isolated from the shielding connection and feature Trompeter's patented spring-finger design.**

For Military Applications see page 5



MINIATURE 2, 3 & 4-lug, & PUSH-ON 70 Series (TRB)

MINIATURE THREADED (TRT)

370 Series



70/370 Series Features

Concentric Twinax connectors for when weight is not of primary concern. Used in digital data bus, video pair, **MIL-STD-1553B** (airborne/ground primary/redundant), base-band circuit and any application for "Noise Free Guarded" circuits.

Meets 48-hour salt spray requirement **MIL-C-49142**.

Special platings available to satisfy 500-hour Salt Spray requirement **MIL-STD-1344**.

Fits **MIL-C17/176-00002** and other twinax/triax cables.

Does not require mechanical alignment for mating.

3-lug, 4-lug and threaded versions for improved mechanical stability.

Field serviceable Wrench Crimp for cables up to .625" diameter.

Tool Crimp for quick terminations fits cables up to .247" diameter.

Only five (5) pieces to assemble.

Push-on versions available.

Same size as BNC/TNC connectors.

Patching available for quick re-routing or disconnect.

Rugged, dependable connectors.

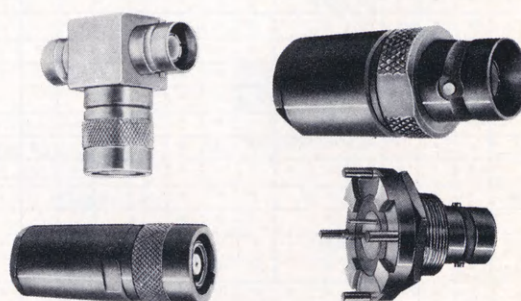
See pages 37-39

STANDARD 2-lug & 3-lug (TRC)

80 Series

STANDARD THREADED (TRN)

380 Series



80/380 Series Features

Used in digital data bus, video pair, **MIL-STD-1553B** (primary/redundant data bus), **MIL-STD-1397** (shipboard data bus), base-band circuit and any application for "Noise Free Guarded" circuits.

Standard "C" sized concentric connectors.

Used with larger twinax/triax cables with other diameters of .250"-.615".

Does not require mechanical alignment for mating.

Requires no special tools while meeting former **MIL-C-49412/1 and /2** requirements.

See page 36

MINIATURE 2-PIN POLARIZED 2-LUG (TWBNC)

30 Series

MINIATURE 2-PIN POLARIZED THREADED (TWTNC)

330 Series

Same size as BNC/TNC connectors

Stepped Dielectric

Not recommended for new design.
Use Concentric designs.

See page 40

TWINAX/TRIAX CONCENTRIC CONNECTORS

Introduction

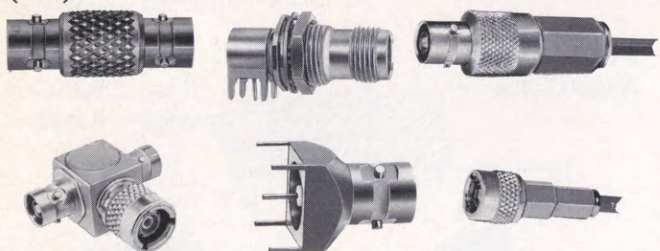
SUBMINIATURE 2, 3 & 4-LUG & PUSH-ON

150 Series (TRS)

SUBMINIATURE THREADED

(TTM)

3150 Series



150/3150 Series Features

Concentric Twinax connectors for high density and weight reduction applications.

Used in digital data bus, video pair, **MIL-STD-1553B** (primary/redundant), base-band circuit and any application for "Noise Free Guarded" circuits.

Meets 48-hour salt spray requirement **MIL-C-49142**.

Special platings available to satisfy 500-hour salt spray requirement **MIL-STD 1344**.

Fits **MIL-C17/176-00002** and other twinax/triax cables.

Does not require mechanical alignment for mating.

3-lug, 4-lug and threaded versions for improved mechanical stability.

Solderable Wrench Crimp version terminates twinax or triax cable up to .215" jacket diameter.

All Tool Crimp versions for quick terminations of cables up to .246" jacket diameter.

Only four (4) pieces to assemble.

Push-on versions for rack & panel or test probe applications.

Same size as BNC/TNC connectors.

Patching available for quick re-routing or disconnect.

Rugged, dependable connectors.

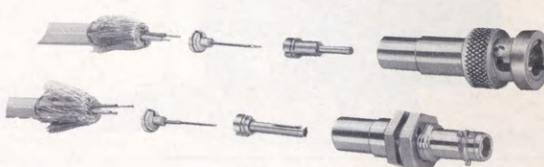
See Pages 41-43

SUBMINIATURE 3-LUG & 4-LUG

450 Series

SUBMINIATURE TWINAX THREADED

3450 Series



450/3450 Series Features

Concentric connectors designed for **MIL-STD-1553B** airborne digital databus weight reduction applications.

Fits **MIL-C17/176-00002** and other twinax/triax cables.

Field installable Full Crimp design.
No soldering required.

Compatible with **Raychem** designs but utilizing military crimp tools. (Intermateable replacement)

Special platings satisfy 500-hour salt spray requirement **MIL-STD-1344**.

Weatherproof designs utilize sealing gaskets and heat shrink tubing.

Inspectable assembly. No blind or questionable solder connections.

3-lug, 4-lug and threaded versions.

Three (3) different keyings for 3-lug versions.

Two (2) interchangeable pin and socket arrangements.

Total of ten (10) different polarized and keyed combinations.

Only four (4) pieces for assembly.

See Pages 44-45

TWINAX CONTACTS FOR DIGITAL DATA BUS MULTIPIN CONNECTOR

#8 Cavity

Mated pair "scoop-proof" concentric contacts to fit the #8 cavity of **MIL-C-38999 series 1, 3 & 4;** and **MIL-STD-1760** external "stores" type of connectors. Terminates **MIL-C17/176-0002** and other twinax/triax cables.

Heat treated beryllium copper spring members

Gold plated Full Crimp contacts

Socket QPL # M39029-91-530

SPC 8S-201

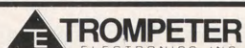
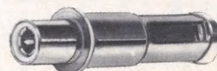
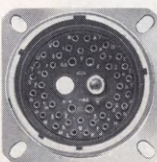
Pin QPL # M39029-90-529

SPC 8P-201

Socket M39039-91-530



Pin M39039-90-529

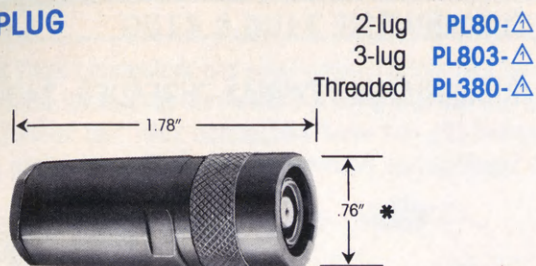


(818) 707-2020 • FAX (818) 706-1040

TWINAX/TRIAX CONCENTRIC CONNECTORS

Standard Twinax/Triax Threaded 80/380 Series, TRC/TRN

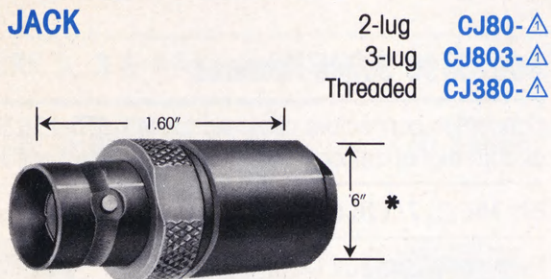
CABLE PLUG



*1.00" Cable Groups 12, 14-16



CABLE JACK



*1.00" Cable Groups 12, 14-16

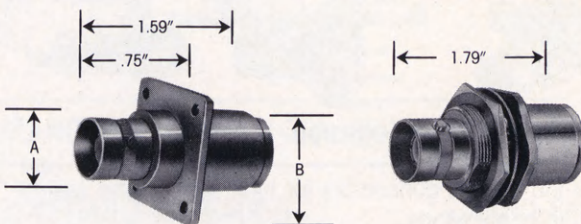
BULKHEAD CABLE JACKS

Flange Mounting
Wrench Crimp

2-lug **BJ89F-△**
3-lug **BJ893F-△**
Threaded **BJ389F-△**

D-Hole Mounting
Wrench Crimp

2-lug **BJ89-△**
3-lug **BJ893-△**
Threaded **BJ389-△**



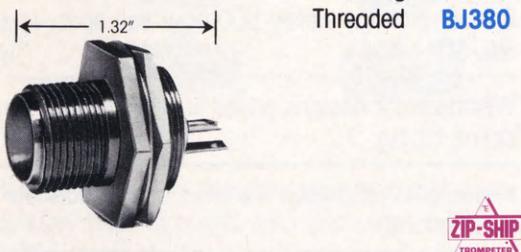
Square Hole Pattern



DD6.250* Cable Grp 7-14 Flange A = .68" B = .94"
D11.259* Cable Grp 14A-16 Flange A = .94" B = .92"

BULKHEAD JACK

Solder pot

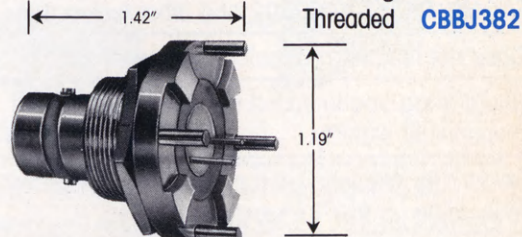


D1.133*



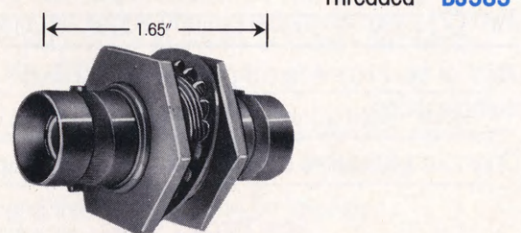
CIRCUIT BOARD JACK

Solder pot



INSULATED FEED-THROUGH

Bulkhead Jack (BJ81 Equivalent)

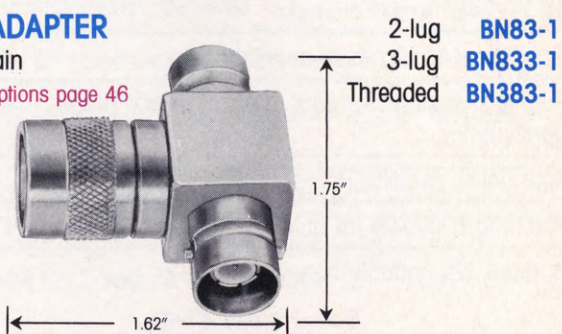


D1.343*

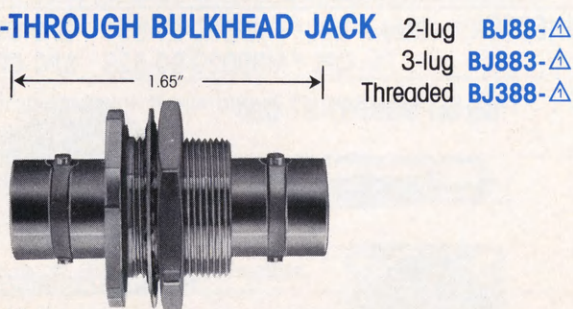
TEE ADAPTER

No chain

Chain options page 46



FEED-THROUGH BULKHEAD JACK



D1.343*

Terminations & RFI Caps
page 46

Custom Cable Assemblies
page 6

△- Cable Group # page 50, * Mounting Holes page 58

TWINAX/TRIAX CONCENTRIC CONNECTORS

Miniature Plugs & Jacks 70/370 Series, TRB/TRT

TWINAX/TRIAX

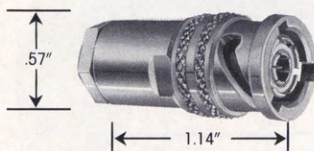
CABLE PLUG

Wrench Crimp

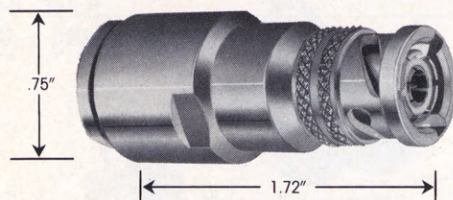
Twinax/Triax cables with
jacket dia. of .280" to .50"

- 2-lug **PL74-△**
- 3-lug **PL75-△**
- 4-lug **PL75FL-△**
- Threaded **PL375-△**

Standard Body



Large Body



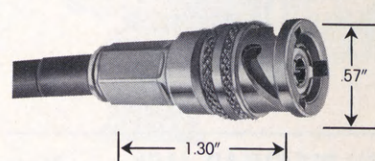
CABLE PLUG

Tool Crimp

Twinax/Triax cables with
jacket dia. of .280" to .50"

- 2-lug **PL74C-△**
- 3-lug **PL75C-△**
- 4-lug **PL75CFL-△**
- Threaded **PL375C-△**

3-Lug



Threaded

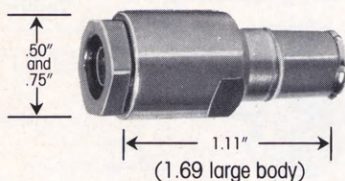


CABLE PLUG PUSH-ON

Wrench Crimp

Large body - Cable groups 10 and up

PL73-△

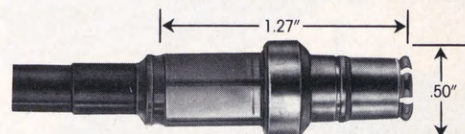


CABLE PLUG PUSH-ON

Tool Crimp

PL73C-△

Standard body



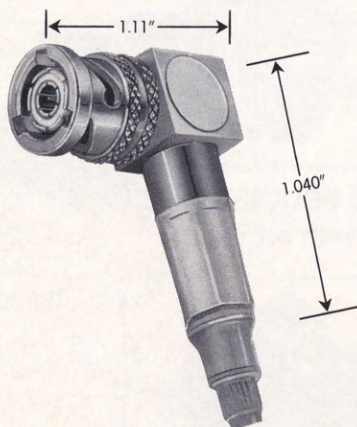
RIGHT ANGLE CABLE PLUG

Tool Crimp

Cable Groups 201-223

See page 59

- 2-lug **PLR74C-△**
- 3-lug **PLR75C-△**
- 4-lug **PLR75CFL-△**
- Threaded **PL375C-△**



CABLE JACK

Wrench Crimp

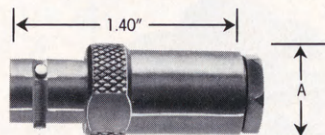
Standard body

Large body

A = .57"

A = .75"

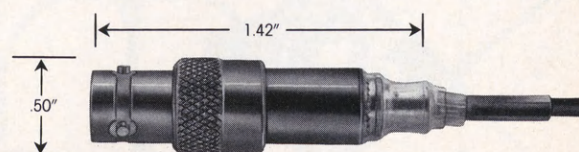
- 3-lug **CJ70-△**
- 3-lug **CJ70TL-△**
- 4-lug **CJ70FL-△**
- Threaded **CJ370-△**



CABLE JACK

Tool Crimp

- 3-lug **CJ70C-△**
- 3-lug **CJ70CTL-△**
- 4-lug **CJ70CFL-△**
- Threaded **CJ370C-△**



△ - Cable Group # page 50

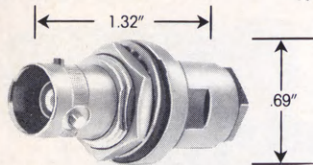
TWINAX/TRIAX CONCENTRIC CONNECTORS

Miniature Bulkhead Jacks 70/370 Series, TRB/TRT

BULKHEAD CABLE JACK

Wrench Crimp

3-lug **BJ79-△**
2-lug **BJ79TL-△**
4-lug **BJ79FL-△**
Threaded **BJ379-△**



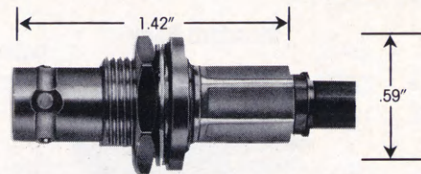
D3.109*



BULKHEAD CABLE JACK

Tool Crimp

3-lug **BJ79C-△**
2-lug **BJ79CTL-△**
4-lug **BJ79CFL-△**
Threaded **BJ379C-△**

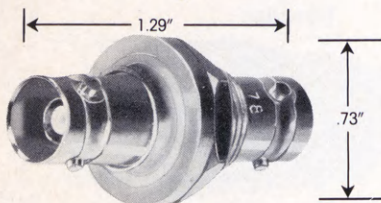


D3.109*



FEED-THROUGH BULKHEAD JACK

3-lug **BJ78**
2-lug **BJ78TL**
4-lug **BJ78FL**
Threaded **BJ378**



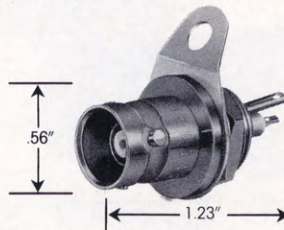
D3.187*



BULKHEAD JACK

Front Mount, Solder pot

3-lug **BJ77**
2-lug **BJ77TL**
4-lug **BJ77FL**
Threaded **BJ377**



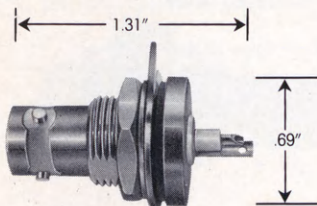
D4.125*



BULKHEAD JACK

Rear Mount, Solder pot *

3-lug **BJ76**
2-lug **BJ76TL**
4-lug **BJ76FL**
Threaded **BJ376**



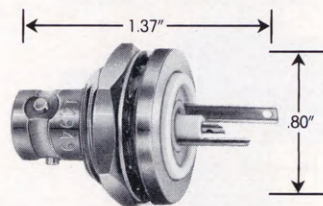
D3.218*



INSULATED BULKHEAD JACK

Rear Mount, Solder pot

3-lug **BJ75**
2-lug **BJ75TL**
4-lug **BJ75FL**
Threaded **BJ375**



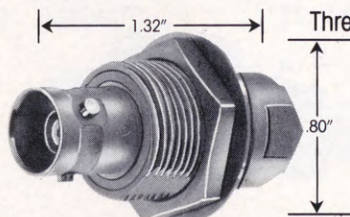
D2.140*



INSULATED BULKHEAD CABLE JACK

Wrench Crimp

3-lug **BJ74-△**
2-lug **BJ74TL-△**
4-lug **BJ74FL-△**
Threaded **BJ374-△**



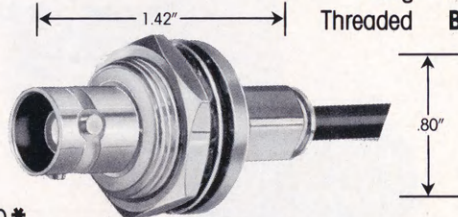
D2.140*



INSULATED BULKHEAD CABLE JACK

Tool Crimp

3-lug **BJ74C-△**
2-lug **BJ74CTL-△**
4-lug **BJ74CFL-△**
Threaded **BJ374C-△**



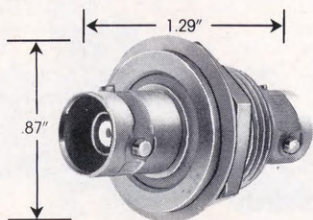
D2.140*



INSULATED FEED-THROUGH

Bulkhead Jack

3-lug **BJ73**
2-lug **BJ73TL**
4-lug **BJ73FL**
Threaded **BJ373**



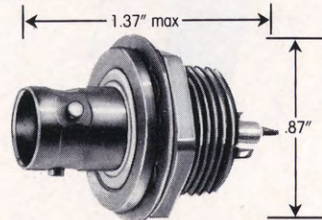
D2.140*



INSULATED BULKHEAD JACK

Front Mount, Solder pot

3-lug **BJ72**
2-lug **BJ72TL**
4-lug **BJ72FL**
Threaded **BJ372**



D2.140*

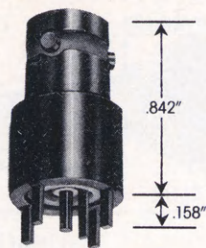


△- Cable Group # page 50, * Mounting Holes page 58

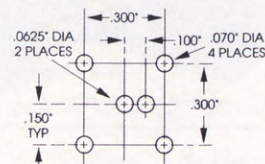
TWINAX/TRIAX CONCENTRIC CONNECTORS

Miniature Circuit Board Jacks 70/370 Series & Paralleling

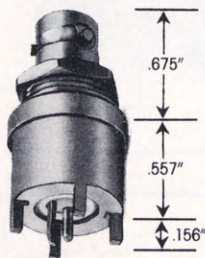
CIRCUIT BOARD JACK



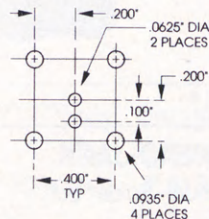
3-lug **CBJ70**
2-lug **CBJ70TL**
4-lug **CBJ70FL**
Threaded **CBJ370**



CIRCUIT BOARD BULKHEAD JACK



3-lug **CBBJ79**
2-lug **CBBJ79TL**
4-lug **CBBJ79FL**
Threaded **CBBJ379**



D3.109*

RIGHT ANGLE CIRCUIT BOARD BULKHEAD JACKS

Standard Version

A = .240"

B = .565"

E = .063"

3-lug **CBBJR79**
2-lug **CBBJR79TL**
4-lug **CBBJR79FL**
Threaded **CBBJR379**

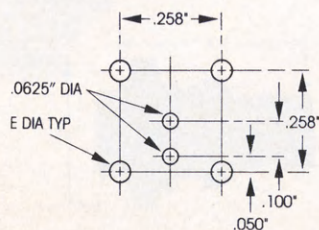
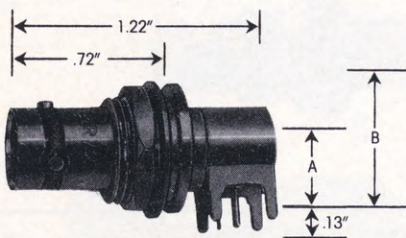
Tall Version

A = .340"

B = .665"

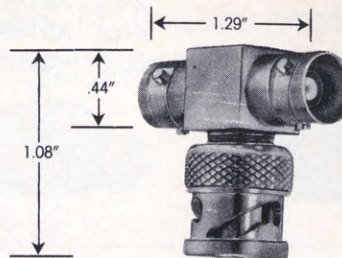
E = .070"

3-lug **CBBJR79A**
2-lug **CBBJR79TLA**
4-lug **CBBJR79FLA**
Threaded **CBBJR379A**



D3.125*

TEE ADAPTER



3-lug **BN73**
2-lug **BN73TL**
4-lug **BN73FL**
Threaded **BN373**



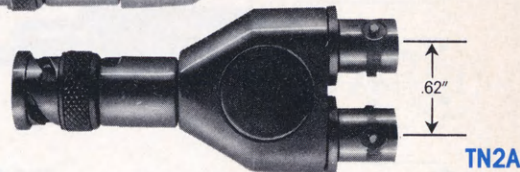
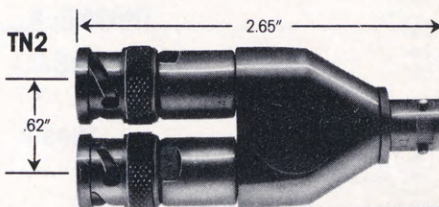
FIXED PARALLELING JACK

Two plugs, One jack

3-lug **TN2**
2-lug **TN2TL**
4-lug **TN2FL**
Threaded **TN2T**

Two jacks, One plug

3-lug **TN2A**
2-lug **TN2TLA**
4-lug **TN2FLA**
Threaded **TN2TA**



RANDOM PARALLELING

Three plugs, No jacks

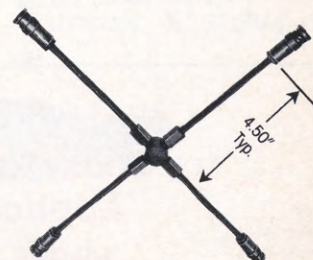
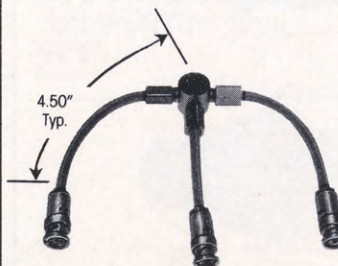
3-lug **TN3-Z**
2-lug **TN3TL-Z**
4-lug **TN3FL-Z**
Threaded **TN3T-Z**

For two plugs, One jack
Add letter "A"

Four plugs, No jack

3-lug **TN4-Z**
2-lug **TN4TL-Z**
4-lug **TN4FL-Z**
Threaded **TN4T-Z**

For three plugs, One jack
Add letter "A"



R - Resistance (.5 W 2%), Z - Impedance Triax - 50Ω/75Ω Twinax - 78Ω/124Ω, * Mounting Holes page 58

TWINAX/TRIAX CONCENTRIC CONNECTORS

Miniature Adapters/Pads, 2-Pin Polarized 30/330 Series TWBNC/TWTNC

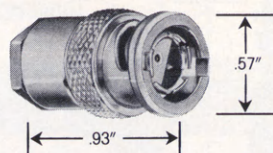
COUPLING ADAPTER

3-lug AD78
2-lug AD78TL
4-lug AD78FL
Threaded AD378



CABLE PLUG

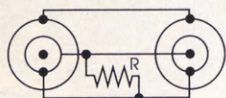
2-lug PL30-△
Threaded PL330-△



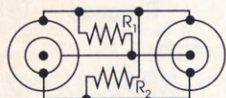
TRB SERIES PAD

TRB 3-lug plug and jack

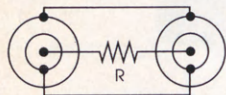
Circuit Schematic



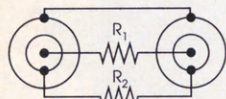
TNG2-R



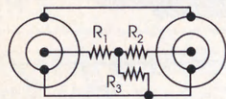
TNG2A-R1-R2



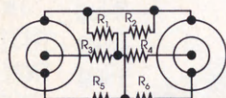
TNG3-R



TNG3A-R1-R2

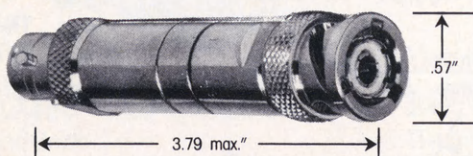


TNG4-R1-R2-R3



TNG4-R1-R2-R3-R4-R5-R6

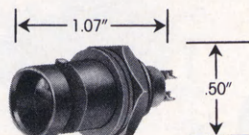
Substitute resistive value for each R unless all values are identical.



BULKHEAD JACK

Front Mount, Solder pot

2-lug BJ30
Threaded BJ330



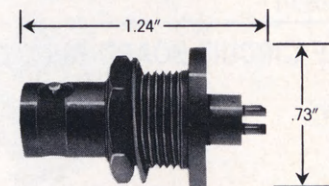
D5.125 *



BULKHEAD JACK

Rear Mount, Solder pot

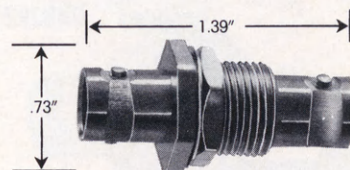
2-lug BJ31
Threaded BJ331



D3.243 *

FEED-THROUGH BULKHEAD JACK

2-lug BJ38
Threaded BJ338



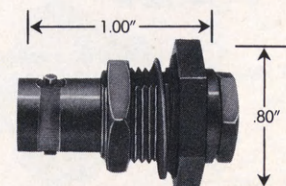
D3.171 *



BULKHEAD CABLE JACK

Front Mount

2-lug BJ39-△
Threaded BJ339-△



D3.218 *

**Custom Adapters
for Coax/Twinax/Triax
Applications
pages 52 - 53**

△- Cable Group # page 50, R - Resistance (.5 W 2%), * Mounting Holes page 58

TWINAX/TRIAX CONCENTRIC CONNECTORS

Subminiature Jacks & Plugs 150/3150 Series, TRS/TTM

Subminiature concentric twinax/triax **increase packing density up to 246%**. Designed for high density installations, Digital, Video pair and baseband circuits where "Noise Free Guarded" circuits are required. 3-lug, 4-lug and threaded versions improve mechanical stability and provide error free redundant data bus capability. Wrench Crimp for cables up to .215" jacket diameter. Tool Crimp for diameters to .246".

TRS BAYONET
3 LUG



TRS BAYONET
4 LUG



TTM
THREADED



TRS/TTM
PUSH-ON



WRENCH
CRIMP



TOOL
CRIMP

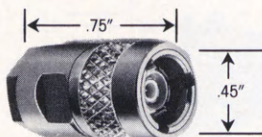


See "Military Applications" page 5 and "150/3150 Series Features" page 35

CABLE PLUG

Wrench Crimp

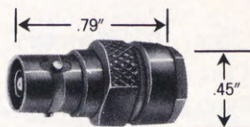
3-lug **PL155-△**
4-lug **PL155FL-△**
Threaded **PL3155-△**



CABLE JACK

Wrench Crimp

3-lug **CJ150-△**
4-lug **CJ150FL-△**
Threaded **CJ3150-△**



CABLE PLUG

Tool Crimp

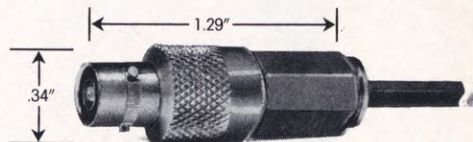
3-lug **PL155AC-△**
4-lug **PL155ACFL-△**
Threaded **PL3155AC-△**



CABLE JACK

Tool Crimp

3-lug **CJ150AC-△**
4-lug **CJ150ACFL-△**
Threaded **CJ3150AC-△**

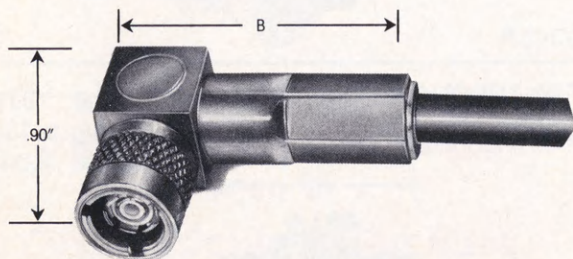


RIGHT ANGLE CABLE PLUG

Tool Crimp

3-lug **PLR155AC-△**
4-lug **PLR155ACFL-△**
Threaded **PLR3155AC-△**

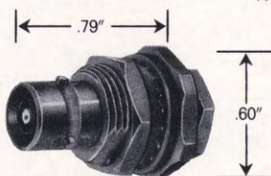
Cable Groups 211-216 B = 1.32"
All others B = 1.77"



BULKHEAD JACK

Rear Mount, Wrench Crimp

3-lug **BJ159-△**
4-lug **BJ159FL-△**
Threaded **BJL3159-△**



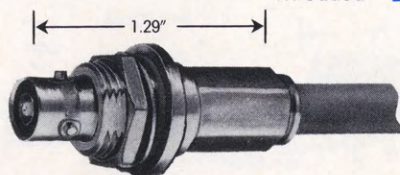
D4.125*



BULKHEAD JACK

Rear Mount, Tool Crimp

3-lug **BJ159AC-△**
4-lug **BJ159ACFL-△**
Threaded **BJL3159AC-△**



D4.125*



△- Cable Group # page 50, * Mounting Holes page 58, Tools page 51

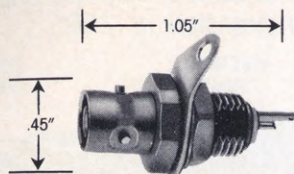
TWINAX/TRIAx CONCENTRIC CONNECTORS

Subminiature Bulkhead Jacks 150/3150 Series TRS/TTM

CABLE PLUG

Solder pot

3-lug **BJ157**
4-lug **BJ157FL**
Threaded **BJ3157**

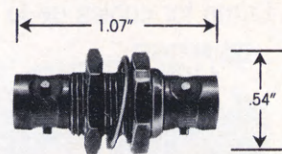


D6.187*



FEED-THROUGH BULKHEAD JACK

3-lug **BJ158**
4-lug **BJ158FL**
Threaded **BJ3158**



D5.171 *
D4.171 * Threaded



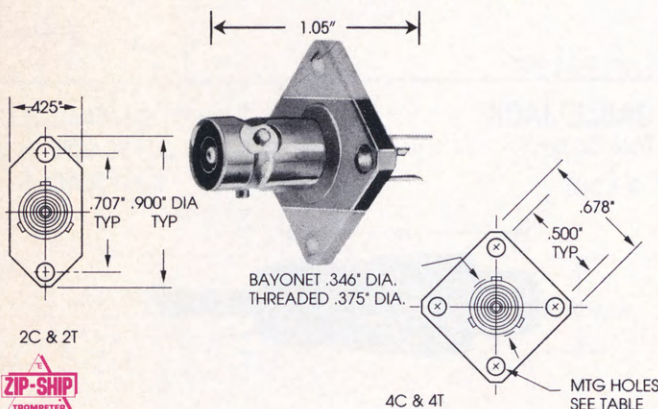
BULKHEAD JACKS

Flange Mount, Solder pot

3-lug **BJ157F-△**
4-lug **BJ157FFL-△**
Threaded **BJ3157F-△**

△-Hole Configuration #

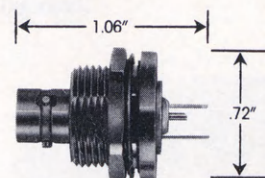
2C-Two Clear (.103" diameter)
4C-Four Clear (.103" diameter)
2T-Two Threaded (.099-56UNF-2B)
4T-Four Threaded (.099-56UNF-2B)



INSULATED BULKHEAD JACK

Rear Mount, Solder pot

3-lug **BJ155**
4-lug **BJ155FL**
Threaded **BJ3155**

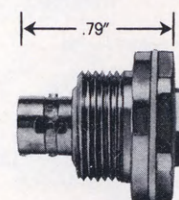


D9.148 *

INSULATED BULKHEAD JACK

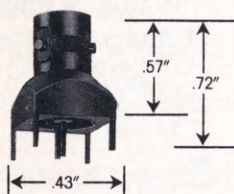
Rear Mount, Wrench Crimp

3-lug **BJ154-△**
4-lug **BJ154FL-△**
Threaded **BJ3154-△**

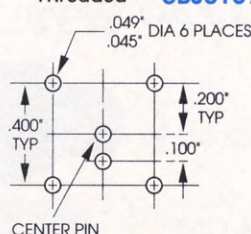


D9.166 *

CIRCUIT BOARD JACK



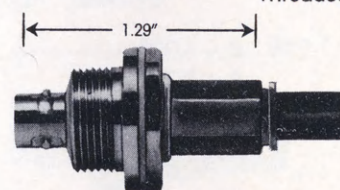
3-lug **CBJ157**
4-lug **CBJ157FL**
Threaded **CBJ3157**



INSULATED BULKHEAD JACK

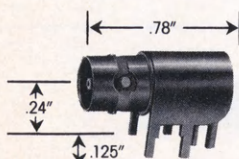
Rear Mount, Tool Crimp

3-lug **BJ154AC-△**
4-lug **BJ154ACFL-△**
Threaded **BJ3154AC-△**

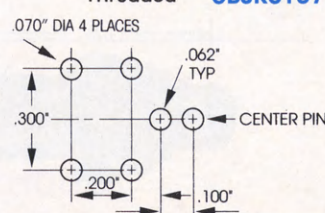


D9.166 *

RIGHT ANGLE CIRCUIT BOARD JACK

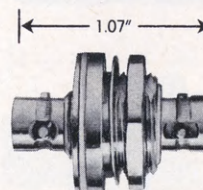


3-lug **CBJR157**
4-lug **CBJR157FL**
Threaded **CBJR3157**



FEED-THROUGH INSULATED BULKHEAD JACK

3-lug **BJ153**
4-lug **BJ153FL**
Threaded **BJ3153**



D9.166 *

△- Cable Group # page 50, * Mounting Holes page 58, Tools page 51

TWINAX/TRIAX CONCENTRIC CONNECTORS

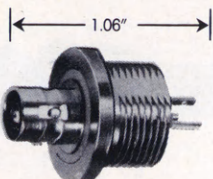
Subminiature Bulkhead Jacks, Adapters & Push-on 150/3150 Series

TWINAX/TRIAX

INSULATED BULKHEAD JACK

Front Mount, Solder pot

3-lug **BJ152**
4-lug **BJ152FL**
Threaded **BJ3152**



D9.208 *

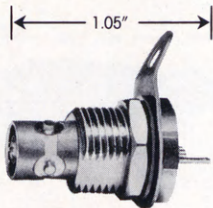
TRS/TTM Push-on connectors are designed for blind mate rack and panel applications. The Male plugs mate with any TRS/TTM jack and are ideally suited for test probe applications.

See page 29 for diagram of typical application.

BULKHEAD JACK

Rear Mount, Solder pot

3-lug **BJ150**
4-lug **BJ150FL**
Threaded **BJ3150**

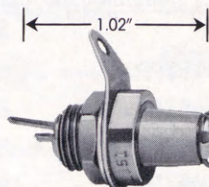


D4.218 *

BULKHEAD PUSH-ON PLUG

PL151

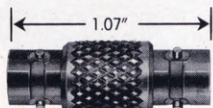
Front Mount, Solder pot



C1.088 *

COUPLING ADAPTER

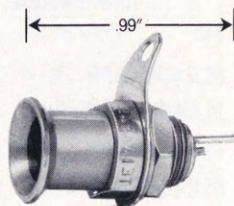
3-lug **AD158**
4-lug **AD158FL**
Threaded **AD3158**



BULKHEAD PUSH-ON JACK

BJ151

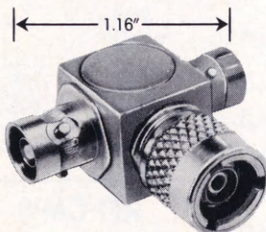
Front Mount, Solder pot



C1.063 *

TEE ADAPTER

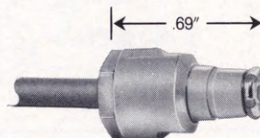
3-lug **BN153**
4-lug **BN153FL**
Threaded **BN3153**



PUSH-ON CABLE PLUG

PL153-△

Wrench Crimp



Terminations & RFI Caps

Page 46

Custom Cable Assemblies

Page 6

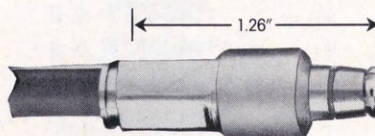
Custom Loaded Panels

Page 54

PUSH-ON CABLE PLUG

PL153AC-△

Tool Crimp



△- Cable Group # page 50, * Mounting Holes page 58

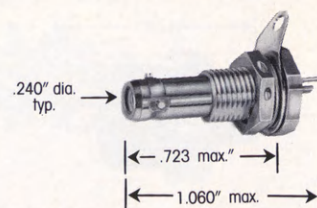
TWINAX/TRIAX CONCENTRIC CONNECTORS

Concentric Twinax 450 Series

BULKHEAD JACK, SOLDER POT, REAR MOUNTING

Connector Type	Key Code	Intermediate Contact	
		Pin	Socket
3-Lug	P	BJ450PP	BJ450PS
3-Lug	R	BJ450RP	BJ450RS
3-Lug	W	BJ450WP	BJ450WS
4-Lug	FL	BJ450FLP	BJ450FLS
Threaded		BJ3450P	BJ3450S

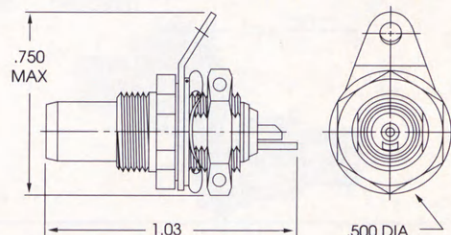
DD8.130, DD8.125-Threaded
Mounting Holes page 58



BULKHEAD JACK, SOLDER POT, FRONT MOUNTING

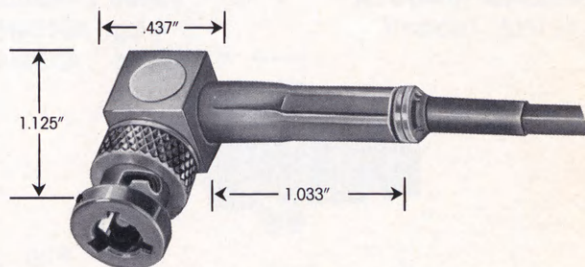
Connector Type	Key Code	Intermediate Contact	
		Pin	Socket
3-Lug	P	BJ457PP	BJ457PS
3-Lug	R	BJ457RP	BJ457RS
3-Lug	W	BJ457WP	BJ457WS
4-Lug	FL	BJ457FLP	BJ457FLS
Threaded		BJ3457P	BJ3457S

DD8.130, DD8.125-Threaded
Mounting Holes page 58

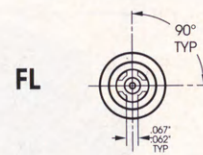
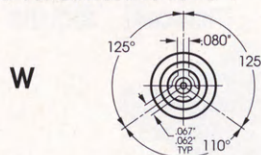
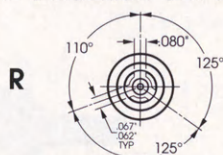
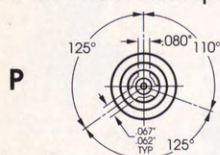


RIGHT ANGLE CABLE PLUG, ALL CRIMP

Connector Type	Key Code	Intermediate Contact	
		Pin	Socket
Lug	P	PLR455ACPP-△	PLR455ACPS-△
3-Lug	R	PLR455ACRP-△	PLR455ACRS-△
3-Lug	W	PLR455ACWP-△	PLR455ACWS-△
4-Lug	FL	PLR455ACFLP-△	PLR455ACFLS-△
Threaded		PLR3455ACP-△	PLR3455ACS-△



The **450 Series** includes 3-lug versions with three (3) separate keyings, a 4-lug and a threaded version. Cable connectors accept cables with a **maximum O.D. of .180"** and **conductors to .025"**.



TERMINATIONS △- Chain # see page 46

Connector Type	Key Code	Intermediate Contact		Mounting Hole	RFI CAP
		Pin	Socket		
In-line Lug	P	TNG451P-△-R	TNG451S-△-R		RFI455-△
In-line 3-Lug	R	TNG451P-△-R	TNG451S-△-R		RFI455-△
In-line 3-Lug	W	TNG451P-△-R	TNG451S-△-R		RFI455-△
In-line 4-Lug	FL	TNG451FL-△-R	TNG451FLS-△-R		RFI455FL-△
In-line Threaded		TNG3451P-△-R	TNG3451S-△-R		RFI3455-△
Bulkhead Lug	P	TBJ451P-△-R	TBJ451S-△-R	DD8.156	RFI455-△
Bulkhead 3-Lug	R	TBJ451P-△-R	TBJ451S-△-R	DD8.156	RFI455-△
Bulkhead 3-Lug	W	TBJ451P-△-R	TBJ451S-△-R	DD8.156	RFI455-△
Bulkhead 4-Lug	FL	TBJ451FLP-△-R	TBJ451FLS-△-R	DD8.156	RFI455FL-△
Bulkhead Threaded		TBJ3451P-△-R	TBJ3451S-△-R	DD8.125	RFI3455-△

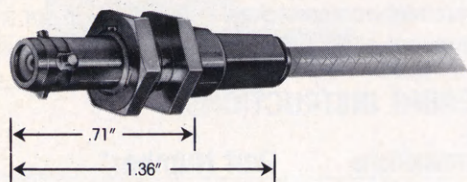
RFI CAPS

TWINAX/TRIAX CONCENTRIC CONNECTORS

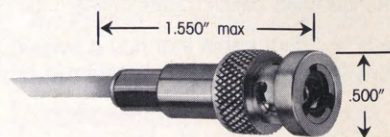
Concentric Twinax 450 Series

TWINAX/TRIAX

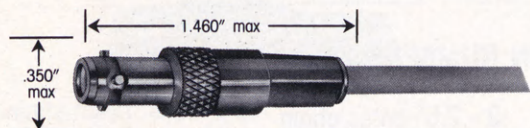
BULKHEAD CABLE JACK FRONT MOUNT, ALL CRIMP



CABLE PLUG, ALL CRIMP



CABLE JACK, ALL CRIMP



CONTACT ASSEMBLIES

Pin/Socket **PS450AC-△**



Socket/Pin **SP450AC-△**



BULKHEAD CABLE JACK, ALL CRIMP, REAR MOUNTING

DD8.156, DD8.125-Threaded
Mounting Holes page 58

Connector Type	Key Code	Intermediate Contact		Body Assembly
		Pin	Socket	
3-Lug	P	BJ459ACPP-△	BJ459ACPS-△	BJ459ACP-△
3-Lug	R	BJ459ACRP-△	BJ459ACRS-△	BJ459ACR-△
3-Lug	W	BJ459ACWP-△	BJ459ACWS-△	BJ459ACW-△
4-Lug	FL	BJ459ACFLP-△	BJ459ACFLS-△	BJ459ACFL-△
Threaded		BJ3459ACP-△	BJ3459ACS-△	BJ3459AC-△

CABLE JACK, ALL CRIMP

Connector Type	Key Code	Intermediate Contact		Body Assembly
		Pin	Socket	
3-Lug	P	CJ450ACPP-△	CJ450ACPS-△	CJ450ACP-△
3-Lug	R	CJ450ACRP-△	CJ450ACRS-△	CJ450ACR-△
3-Lug	W	CJ450ACWP-△	CJ450ACWS-△	CJ450ACW-△
4-Lug	FL	CJ450ACFLP-△	CJ450ACFLS-△	CJ450ACFL-△
Threaded		CJ3450ACP-△	CJ3450ACS-△	CJ3450AC-△

CABLE PLUG, ALL CRIMP

Connector Type	Key Code	Intermediate Contact		Body Assembly
		Pin	Socket	
3-Lug	P	PL455ACPP-△	PL455ACPS-△	PL455ACP-△
3-Lug	R	PL455ACRP-△	PL455ACRS-△	PL455ACR-△
3-Lug	W	PL455ACWP-△	PL455ACWS-△	PL455ACW-△
4-Lug	FL	PL455ACFLP-△	PL455ACFLS-△	PL455ACFL-△
Threaded		PL3455ACP-△	PL3455ACS-△	PL3455AC-△

△- Cable Group # page 50

TWINAX/TRIAX CONCENTRIC CONNECTORS

Quadrax 100 Series & Twinax/Triax Terminations & RFI Caps

QUADRAX CONNECTORS

Quadrax connectors were designed for the ultimate in protected and guarded circuit applications.

Quadrax cable is a signal cable that has a twisted pair of signal wires with two separate and insulated braids.

See "Quadrax Guarded Circuit" in Appendix A.

The two-lug connectors shown are concentric, do not require mechanical alignment for mating, and accept TEI quadrax cable type QRC-78-2.



SEE PAGE 60 FOR CABLE SPECIFICATIONS

CABLE PLUG

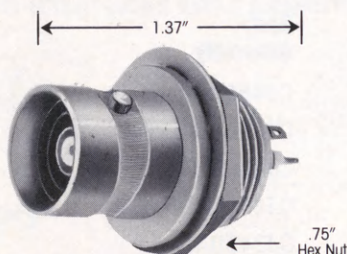
PL101-△



BULKHEAD JACK

BJ101

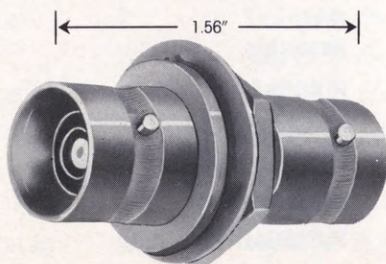
Solder pot



D2.187*

FEED-THROUGH BULKHEAD JACK

BJ102



D2.187*

△- Cable Group # page 50 * Mounting Holes page 58

TWINAX/TRIAX TERMINATIONS & RFI CAPS

Trompeter provides Termination and RFI cap versions of many of our connectors. Resistors are normally **.125 watt for subminiature** connectors and **.500 watt for miniature and standard size** connectors with **2% tolerances** for all.

ORDERING INSTRUCTIONS:

For Terminations: Part Number* - _____
Chain # _____
Resistance _____

For RFI Caps: Part Number* - _____
Chain # _____

CHAIN NUMBERS:

- | | |
|----------------------|----------------------|
| 1 - No chain | 3 - 2.5" nylon chain |
| 2 - 2.5" brass chain | 5 - 3.0" nylon chain |
| 4 - 3.0" brass chain | 7 - 6.0" nylon chain |
| 6 - 6.0" brass chain | |

*For 2-lug & 4-lug versions call factory

Terminations



Page	Termination Description	Mating Part	Part Number
37	PL75 Plug	TRB jacks	TNG1
38	BJ79 Jack	TRB plugs	TNBGJ1
40	BJ30 Jack	PL30 plugs	TNBGTJ1
36	PL80 plug	TRC jacks	TNGL1
41	PL155 plug	TRS jacks	TNGM1
40	PL30 plug	2-pin jacks	TNGT1
37	PL375 plug	TRT jacks	TNT1
37	CJ370 jack	TRT plugs	TNTF1
41	PL3155 plug	TTM jacks	TNTM1
48	J150 jack	TRS plugs	TJTWM
47	PL71 plug	J72 jacks	TPT
41	PL150 plug	TRS jacks	TPTWM

Page	Termination Description	Mating Part	Part Number
47	J72	Patch plug	RFI70
38	BJ77	PL75 plug	RFI75
37	PL75	BJ77 jack	RFI77
36	BJ80	PL80 plug	RFI85
48	J150	Subminiature patch plug	RFI150
31	BJ50	TPS Twinax/Triax plug	RFI155
38	BJ377	PL75 threaded plug	RFI375
37	PL375	BJ77 threaded plug	RFI377
31	BJ3150	TPS threaded plug	RFI3155

TWINAX/TRIAX CONCENTRIC PATCHING

Standard Patch Plugs, Jacks, Cords & Cable assemblies

TWINAX/TRIAX

PATCH PLUG

With bend relief **PL71-△**
PL71BR



TWINAX/TRIAX PATCH CORDS & CABLE ASSEMBLIES

Standard cable lengths are 6", 12", 18", 24" & 36"
TRB 2-lug, 4-lug and Threaded versions available

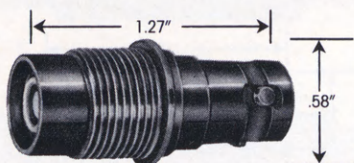
**Custom Coax/Twinax/Triax
Cable Assemblies: Page 6**

Panels: Pages 55-57

PATCH JACK

Threaded .5-28 UNEF

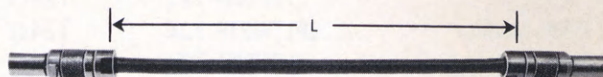
J70



PATCH CORD

Patch plug to patch plug

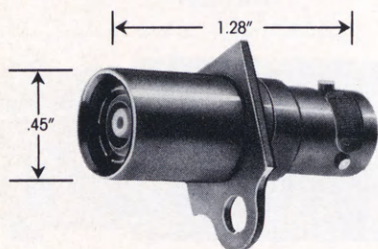
Twinax **PTW-L-Z**
Triax **PTR-L-Z**



PATCH JACK

Rear access TRB 3-lug

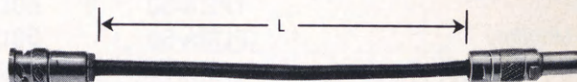
J72



CABLE ASSEMBLY

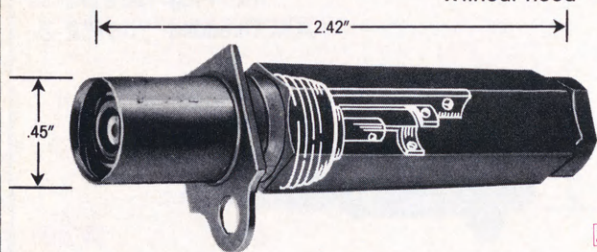
TRB 3-lug plug to patch plug

Twinax **PTWX-L-Z**
Triax **PTRX-L-Z**



PATCH JACK SHIELDED

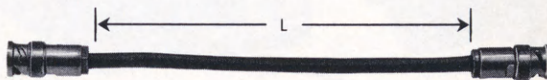
With hood **J72D**
Without hood **J72S**



CABLE ASSEMBLY

TRB 3-lug plugs
Bend relief available

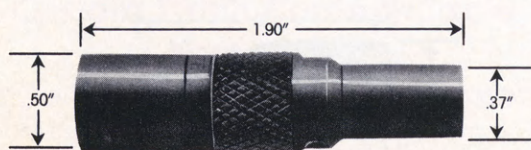
Twinax **PTWY-L-Z**
Triax **PTRY-L-Z**



RFI PATCH PLUG CAP TERMINATED PATCH PLUG

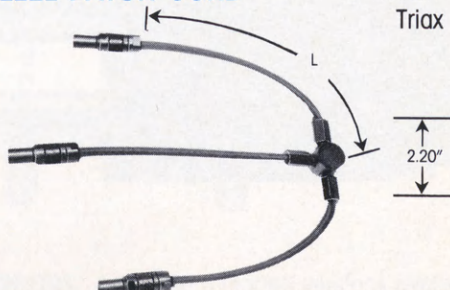
No chain. Chain options page 48

RFI 70-1
TPT-1-R



PARALLEL PATCH CORD

Twinax **PTWS-L-Z**
Triax **PTRS-L-Z**



△ - Cable Group # page 50, L - Length in inches, R - Resistance (.5 W 2%), Z - Impedance, Panels pages 55-57

TWINAX/TRIAX CONCENTRIC PATCHING

Standard Looping Plugs, Subminiature Patch Plugs & Jacks

LOOPING PLUGS

Standard Handle Twinax A = .625" B = .625"

Plain	LPTW-78	78Ω
Test Point Monitor	LPTW2TP-78	78Ω
TRB Monitor	LPTWA-78	78Ω
Plain	LPTW-124	124Ω
Test Point Monitor	LPTW2TP-124	124Ω
TRB Monitor	LPTWA-124	124Ω

Wide Handle Twinax A = 1.00" B = 1.57"

Plain	LPLTW-78	75Ω
Test Point Monitor	LPLTW2TP-78	75Ω
TRB Monitor	LPLTWA-78	75Ω
Plain	LPLTW-124	124Ω
Test Point Monitor	LPLTW2TP-124	124Ω
TRB Monitor	LPLTWA-124	124Ω

Standard Handle Triax A = .625" B = 1.20"

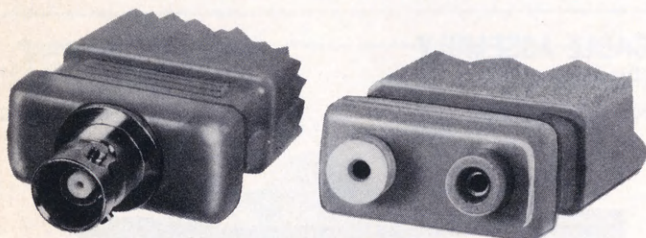
Plain	LPTR-50	50Ω
TRB Monitor	LPTRA-50	50Ω
Plain	LPTR-75	75Ω
TRB Monitor	LPTRA-75	75Ω

Wide Handle Triax A = 1.00" B = 1.57"

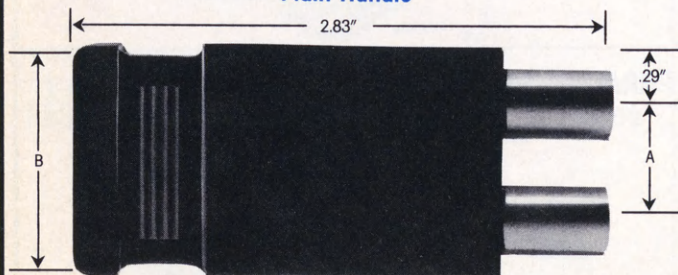
Plain	LPLTR-50	50Ω
TRB Monitor	LPLTRA-50	50Ω
Plain	LPLTR-75	75Ω
TRB Monitor	LPLTRA-75	75Ω

TRB Monitor

Test Point Monitor

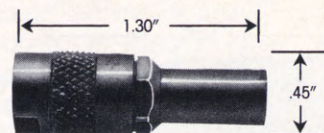


Plain Handle



PATCH PLUG

PL150-△

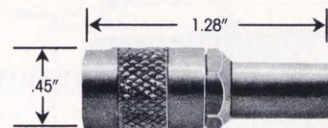


RFI PATCH PLUG CAP

RFI 150-1

No chain

Chain options page 46

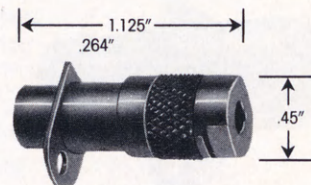


PATCH JACK

J150-△

Cable Entry

JSIX panels page 58



PATCH JACK

TRS 3-lug

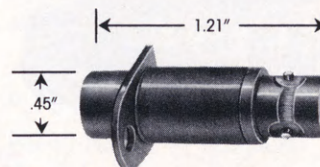
J152-△

TRS 4-lug

J152FL-△

TCM Threaded

J3152-△

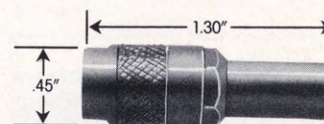


TERMINATED PATCH PLUG

TPTWM-1-R

No chain

Chain options page 46



R - Resistance (.5 W 2%), Panels page 58

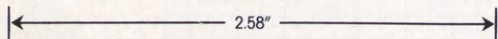
TWINAX/TRIAX CONCENTRIC PATCHING

Subminiature Looping Plugs, Patch Cords & Cable Assemblies

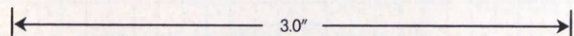
SUBMINIATURE LOOPING PLUGS

Handle	Type	
Yellow	Triax 50Ω, 75Ω	LPTRM-Z
Blue	Twinax 78Ω, 124Ω	LPTWM-Z
Blue TRS Jacks	Twinax 78Ω, 124Ω	LPTWMA-Z
Blue Test Point	Twinax 78Ω, 124Ω	LPTWM2TP-Z

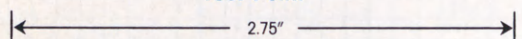
Plain Handle



TRS Jacks



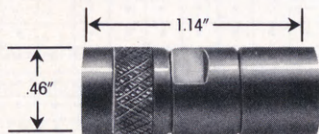
Test Point



TERMINATION PLUG

TRS* 3-lug plug
No chain, Chain options page 46

TNGM1-1-R



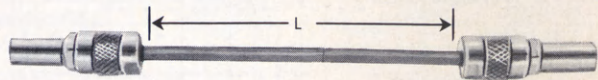
Additional Terminations & RFI Caps
page 46

Custom Patch Cords & Cable Assemblies
made with Trompeter components
page 6

PATCH CORD

Subminiature Patch plug
to patch plug

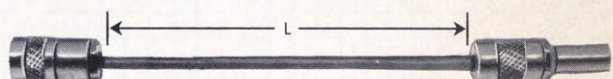
Triax 50Ω, 75Ω, **PTRM-L-Z**
Twinax 78Ω, 124Ω, **PTWM-L-Z**



CABLE ASSEMBLY

Subminiature Patch plug
to TRS* 3-lug plug

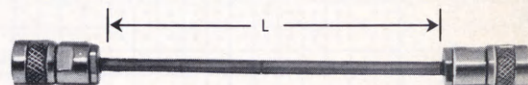
Triax 50Ω, 75Ω, **PTRMX-L-Z**
Twinax 78Ω, 124Ω, **PTWMX-L-Z**



CABLE ASSEMBLY

TRS* 3-lug plug
to TRS* 3-lug plug

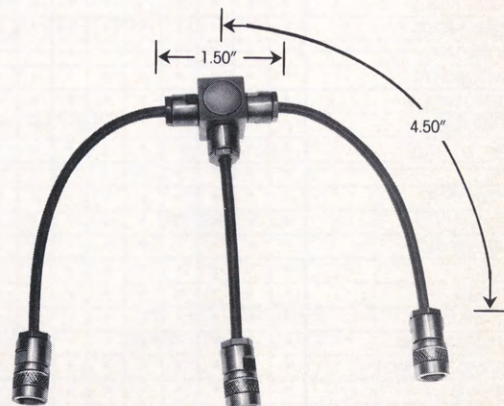
Triax 50Ω, 75Ω, **PTRMY-L-Z**
Twinax 78Ω, 124Ω, **PTWMY-L-Z**



RANDOM PARALLELING

Twinax 78Ω, 124Ω
Triax 50Ω, 75Ω
TRS* 3-lug plugs,
Metal junction

TNM3-Z



TRB/TRS* 4-lug and threaded versions available

△- Cable Group # page 50, L - Length in inches, R - Resistance (.5 W 2%), Z - Cable Impedance

CONNECTOR/CABLE COMPATIBILITY TABLES

Twinax/Triax/QuadraX "Wrench Crimp" Connectors

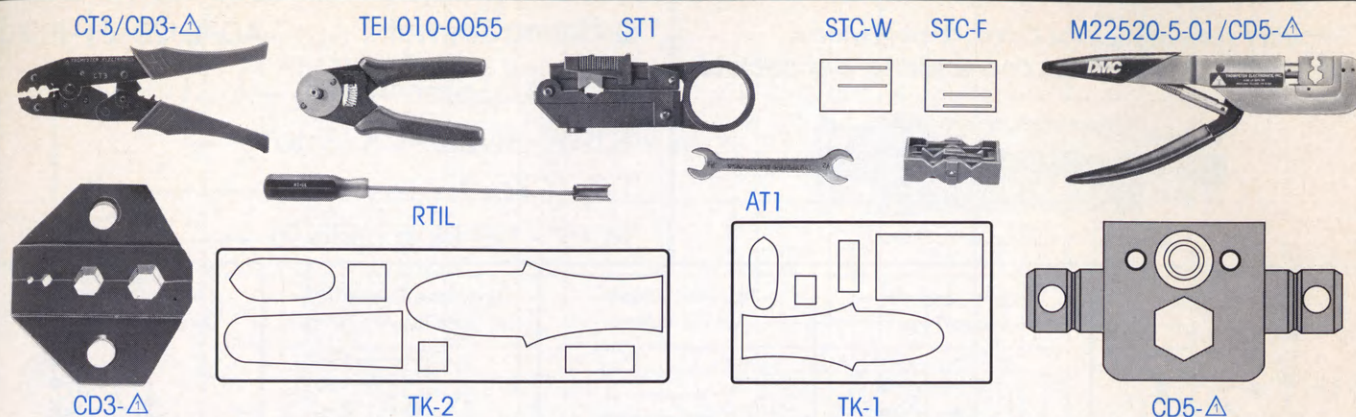
* - Connector available for that cable group.

[illegible]

Twinax/Triax "Tool Crimp" Connectors

* - Connector available for that cable group.

P R O D U C T	CONNECTOR	CABLE GROUP																																
		201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	301	302	303	305	306					
42	BJ154AC/BJ154ACFL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			*		*			
41	BJ159AC/BJ159ACFL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			*		*			
41	CJ150AC/CJ150ACFL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			*		*			
42	BJ3154AC	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			*		*			
41	BJ3159AC	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			*		*			
41	CJ3150AC	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			*		*			
37	CJ70C/CJ70CFL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
37	CJ70CTL/CJ370C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
38	BJ74C/BJ74CFL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
38	BJ74CTL/BJ374C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
38	BJ79C/BJ79CFL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
38	BJ79CTL/BJ379C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
37	PL73C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
37	PL74C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
37	PL75C/PL75CFL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
43	PL153AC	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
41	PL155/PL155ACFL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
37	PL375C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
41	PL3155AC	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
37	PLR74C/PLR75CTL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
37	PLR75CFL/PLR375C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
41	PLR155AC/PLR155ACFL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
41	PLR3155AC	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
35	SPC8P	*	*	*	*	*													*	*			*	*	*									
35	SPC8S	*	*	*	*	*													*	*			*	*	*									
45	BJ459AC/GROUP	*	*	*	*	*	*		*	*		*							*	*	*	*	*	*	*									
45	CJ450AC/GROUP	*	*	*	*	*	*		*	*		*							*	*	*	*	*	*	*									
36	PL455AC/GROUP	*	*	*	*	*	*		*	*		*							*	*	*	*	*	*	*									
44	PLR455AC/GROUP	*	*	*	*	*	*		*	*		*							*	*	*	*	*	*	*									
									*	*		*							*	*	*	*	*	*	*									



COAX CRIMP TOOL

Tool Only **CT3**
Tool with die **CT3/CD3-Δ**

Standard & Miniature Patching, 20 Series-BNC, 40 Series-TNC, 50 Series-TPS and 350 Series TCM connectors

Connector Center Contact

50Ω Connectors
75Ω BNC or TNC connectors

CD3 die sleeve C
TEI 010-0055

Connector Crimp Sleeve

Cable Group	Die	Sleeve	Die #
001, 003, 004, 007-010, 026-027	B	.178 Hex	CD3-1
011-012, 021	A	.213 Hex	
013-014, 018-019, 022-023, 025	B	.255 Hex	CD3-2
016	A	.324 Hex	
015, 020, 024	B	.290 Hex	CD3-3
017	A	.324 Hex	
002, 005-006	B	.197 Hex	CD3-5

STRIPPING TOOL

With Tool Crimp cassette **ST1/STC-F**
With Wrench Crimp cassette **ST1/STC-W**
Tool only **ST1**

Tool Crimp Cassette

Wrench Crimp Cassette

CRIMP TOOL KITS

TCK Δ (Connector)-(Cable Grp#)

CT3 crimp tool with 1 die (Δ-specify die). Stripping tool with cassette in an 8"x12.25"x2.12" box

CT3 crimp tool with CD3-2 and CD3-5 dies in an 8"x12.25"x2.12" box **TK-1**

Same as TK1 plus TEI-010-0055 center-contact crimp tool in an 6.25"x18"x4.62" box with tray. **TK-2**

CONNECTOR REMOVAL TOOL

Connector Type	Tool Length	
BNC, TNC, TRB, TRT, TWBNC	12"	RT1L
TWTNC	6"	RT1S
	3"	RT1SS
N	12"	RT3L
	6"	RT3S
TPS, TCM, TRS, TTM	12"	RT4L
	6"	RT4S
TRC, TRN	12"	RT5L
	6"	RT5S

CONNECTOR ASSEMBLY TOOL

Connector Type	
BNC, TNC, N, TRB, TRT	AT1
TPS, SMA, PL1C, TRS, TTM	AT2
TPS, SMA, PL1C, TRS, TTM	(Hex) AT4F

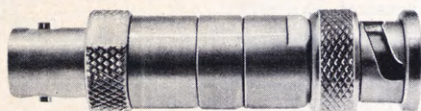
TWINAX/TRIAX TOOL CRIMP

Connector Series	Cable Type	Cable Group Number	Center Contact	Positioner	DIE SET # Body-A Shield-B
M39039-90-529 M39039-91-530 (Contacts for #8 Cavity)	Twinax	201-203, 205 217-222	M22520/2-01, (Daniels' AFM8 or equivalent)	Daniels' K709	CD5-4 Daniels' Y631
	Triax	301-303			CD5-7
PLR150AC Series PLR 70C Series 70C Series	Twinax	201-223	M22520/1-01, (Daniels' AF8 or equivalent)	Pin - TEI 010-0044 Socket - TEI 010-0045	CD5-8
	Triax	301-303 305-306			CD5-10
150AC Series (Sm Body) 450AC Series	Twinax	201-206, 208 209, 217-223	M22520/2-01, (Daniels' AFM8 or equivalent)	TEI 010-0041 (Daniels' K815S)	CD5-9
PLR450 Series					CD5-12
150AC Series (Sm Body)	Triax	301-303			CD5-11
150AC Series (Lg Body)	Twinax	207, 210-216	M22520/2-01, (Daniels' AFM8 or equivalent)	TEI 010-0043 (Daniels' K816S)	CD5-8
	Traix	306			CD5-13

ADAPTERS

Adapter Ordering Format and Circuitry Schematics

Circuitry schematics for Coax, 2-pin Twinax, Concentric Twinax/Triax and QuadraX Connectors.



For adapters not referenced call factory.

Ordering Format:

AD-BJ20-E1-PL75

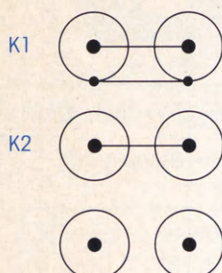
"AD" - Adapter

"BJ20" - BNC JACK (Side 1)

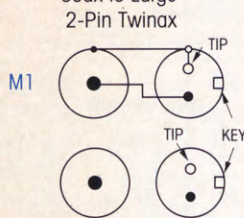
"E1" - Circuit

"PL75" - TRB Plug (Side 2)

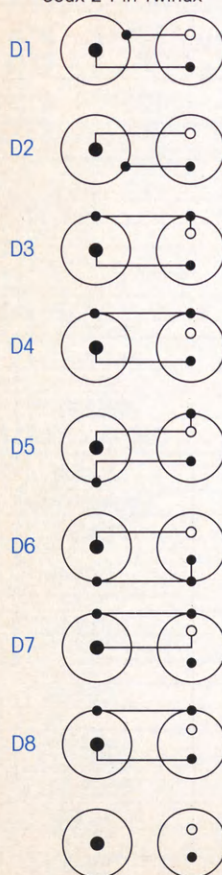
Coax to Coax



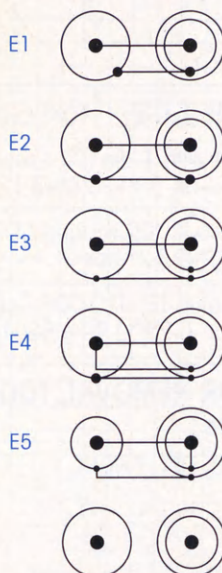
Coax to Large 2-Pin Twinax



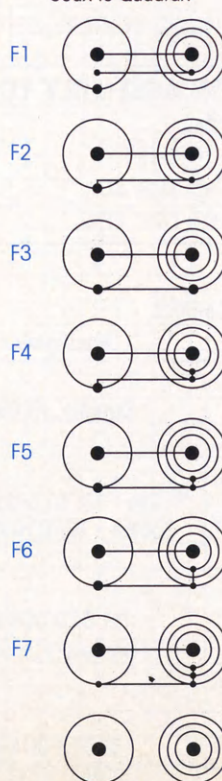
Coax 2-Pin Twinax



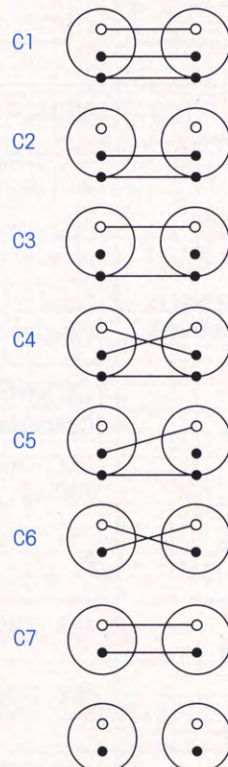
Coax to Concentric Twinax/Triax



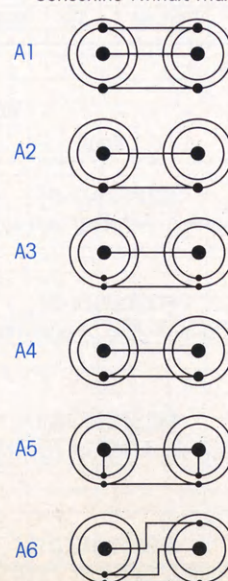
Coax to QuadraX



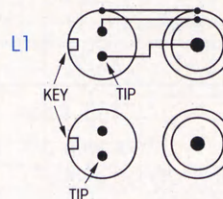
Two-Pin Twinax to Two-Pin Twinax



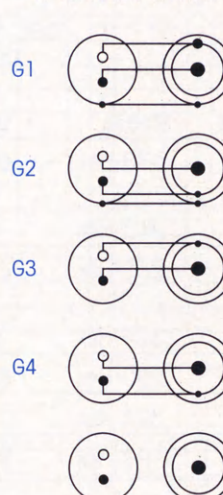
Concentric Twinax/Triax to Concentric Twinax/Triax



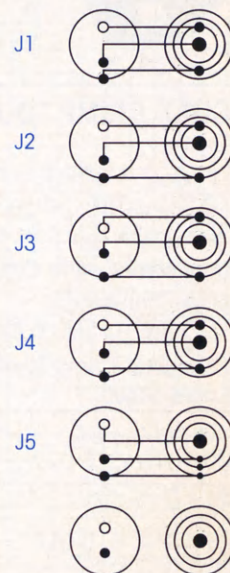
Concentric Twinax/Triax to Large Two-Pin Twinax



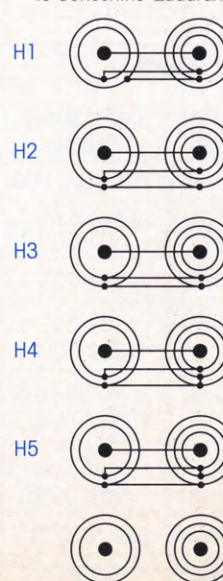
Two-Pin Twinax to Concentric QuadraX



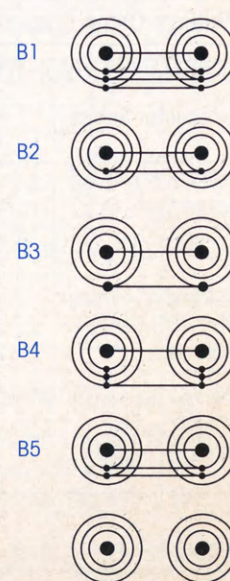
Two-Pin Twinax to Concentric QuadraX



Concentric Twinax/Triax to Concentric QuadraX



QuadraX to QuadraX



Adapter Tables: Coax to Coax, Coax/Twinax/Triax to Twinax/Triax

Adapters listed below have fixed circuits (i.e. pin to pin & shield to shield).

ID#	PART #
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
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88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

1	AD 28
2	AD 48
3	AD 78
4	AD 92
5	AD 95
6	ADI 95
7	AD 122
8	AD 130
9	AD 131
10	AD 133
11	AD 142
12	AD 378
13	AD 2848
14	BJ 28
15	BJ 38
16	BJ 48
17	BJ 58
18	BJ 73
19	BJ 88
20	BJ 98
21	BJ102
22	BJ158
23	BJ158FL
24	BJ 358
25	BJ373
26	BJ378
27	BJ 2848
28	BJ 4828

[illegible]

I = Insulated B = Bulkhead Mount U = 75 Ohm Available F = Female M = Male			TPS		T C M	BNC			TNC			N			TRS		TRB				TRT			TWBNC		TRC		C30										
			BJ50	PL50	BJ350	BJ20	BJ26	BJ29	CJ20	PL20	PL123	BJ40	BJ49	CJ40	PL40	BJ95	BJ96	J95	PL95	BJ157	BJ157FL	CJ150	BJ72	BJ74	BJ77	BJ79	CJ70	PL75	BJ377	BJ379	PL375	BJ30	PL30	BJ80	CJ80	PL80	BJ101	
						U	U	U	U	U		U	U	U	U	U	U	U	U		F	F	F	F	F	F	F	F	M	F	F	M	F	M	M	M	F	
			F	M	M	F	F	F	F	M	M	F	F	F	M	F	F	F	M	F	F	F	F	F	B	F	F	F	M	F	F	M	F	M	M	M	F	
							B	B					B				B	B		I				I	I		B				B							
						I										I						I	I															
TRS	BJ157	F																																				
	BJ157FL	F																																				
	CJ150	F																																				
	PL150	M																																				
	PL155	M																																				
	PL155FL	M																																				
TTM	PL3155	M																																				
TRB	BJ74	F B I																																				
	BJ77	F																																				
	BJ79	F B																																				
	CJ70	F																																				
	PL71	M																																				
	PL74	M																																				
	PL75	M																																				
TRT	BJ374	F	I																																			
	BJ377	F																																				
	BJ379	F B																																				
	CJ370	F																																				
	PL375	M																																				
TWBNC	BJ30	F																																				
	BJ39	F B																																				
	CJ30	F																																				
	PL30	M																																				
TRC	BJ89	M B																																				
	BJ89F	M B																																				
	CJ80	M																																				
	PL80	F																																				
QRC	BJ101	F																																				
RCA	PL101	M																																				

Adapters Coax to Coax

Adapters Coax/Twinax/Triax to Twinax/Triax

ADAPTERS

PANELS

Panels Introduction & Specifications

INTRODUCTION:

Listed in the catalog is a collection of panels in popular sizes and jack configurations.

Custom Panels: Special panels of any size and jack configuration can be furnished on special order.

PANEL FEATURES:

Standard/Miniature 50Ω/75Ω 19"x1.75"x.56"
rack-mount patch panels 19"x3.50"x.56"

Miniature 75Ω 17.15"x1.75"x.56"
flush mount patch panel

Vertical Hole Center-spacing

Standard patch panels .625"

3.50" standard patch panels 1.00"
"W" configuration option

Miniature 50Ω/75Ω patch panels .50"

Miniature 50Ω patch panels 1.10"
"B" configuration

Notching:

Standard MIL-STD-189 Open
Special order Closed

Material: JS Series, Common ground panels

Panel 6061-T6 grade aluminum
Backbar 6061-T6 grade aluminum

Material: JSI Series, Insulated panels

Panel 6061-T6 grade aluminum
Backbar XXX non-hydroscopic phenolic
Jack insulation Nylon sleeves

Finishes:

Standard Finish FED-STD-595-26307, Light Gray

Customer Specified FED-STD-595# or paint chip

Chemical film finish MIL-C-5541 Class 1a (Gold tone)
MIL-C-5541 Class 3 (Clear)

Identification:

Stainless designation strip,
card & plastic window

Standard patch panels DS1 .50" x 16.5"
DS2 .75" x 16.5"

High density patch panels DS4 .25" x 16.5"

Custom Marking: Panel front may be engraved or silk-screened in lieu of, or in addition to, designation strips. Patch jack locations can also be marked on the rear of the panel for easy location of jacks from the back of the rack. These markings are usually stenciled.

SPECIAL PANELS:

Miniature 50Ω Coax Patch Panels: page 57

Panels are for use in high density 50Ω patching. Both insulated and non-insulated panels have stiffener bars. Holes are tapped .3125"-32-2B.

Miniature 50Ω Coax Patching page 16-17

Miniature 75Ω Coax Patch Panels: page 58

Panels are for high density, low VSWR 75Ω coaxial applications such as microwave, sub-carrier telephone or similar systems.

Trompeter's J12 jack and the PL1C plug combination have a VSWR or 1.04:01 when used in the 60-80 MHz range.

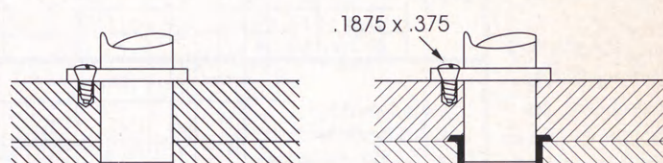
Miniature 75Ω Coax Patching pages 18-20

Low VSWR 50Ω Coax Panels page 15

Custom Panels page 6

Cable Distribution Cables page 59

PANEL CROSS SECTION



Non-insulated

Insulated

Aluminum Phenolic Nylon Bushing

ORDERING INFORMATION:

Panels can be ordered separately or combined with any combination of jacks (provided the mechanical restrictions are recognized) by using the following part number format.

Example:

JS-12 standard non-insulated panel
loaded with twelve (12) J3
Standard 50Ω patch jacks

JS-12/J3

Selected panel part number _____

JS = Aluminum panel (Open notch)

JSI = Insulated panel (Open notch)

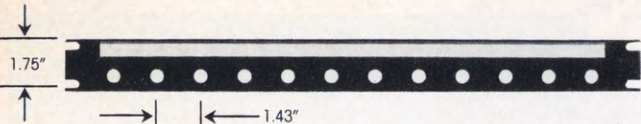
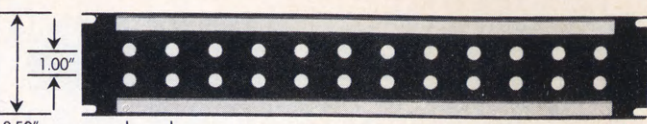
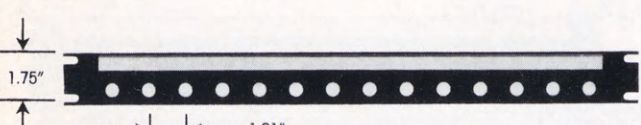
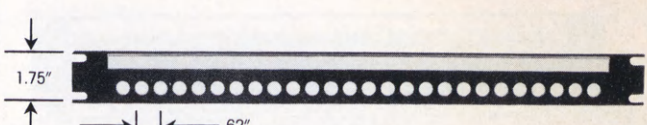
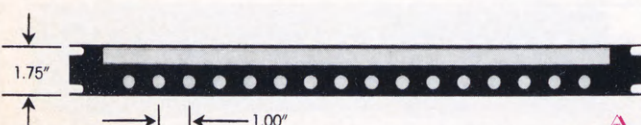
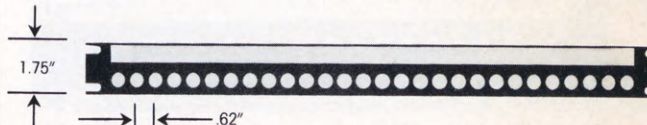
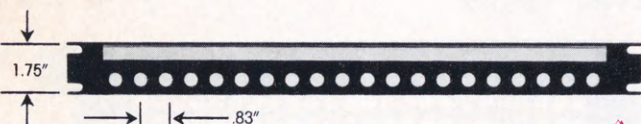
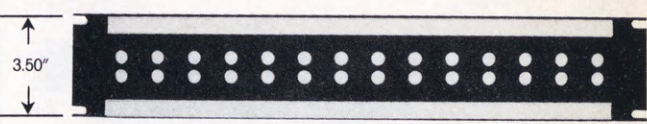
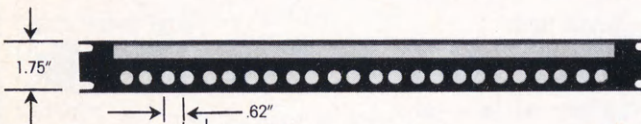
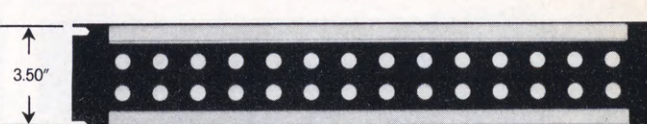
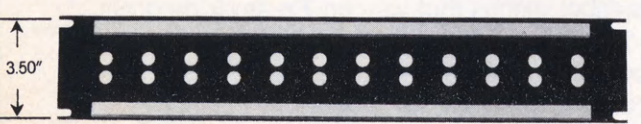
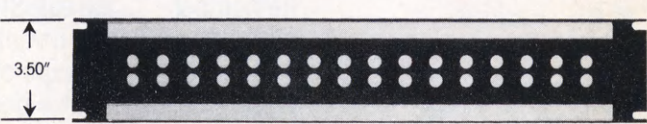
Selected jack part number _____

Custom Panels page 6

PANELS

Standard Patch

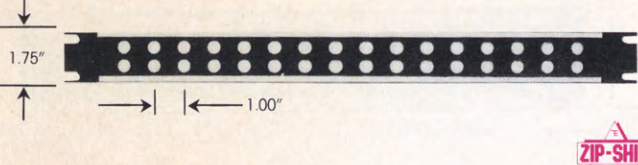
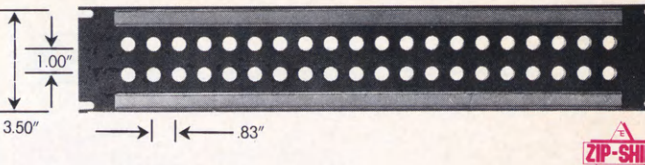
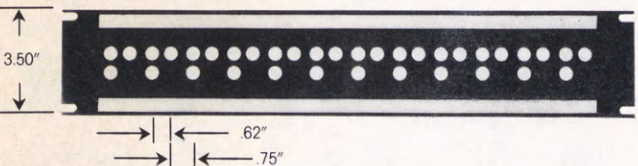
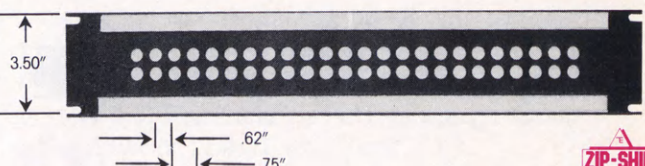
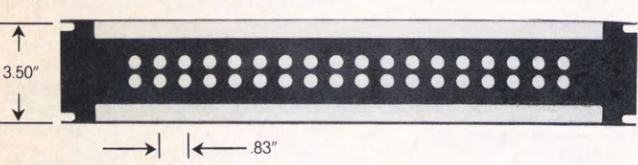
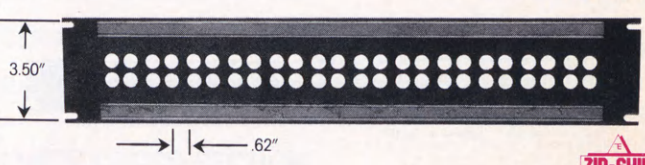
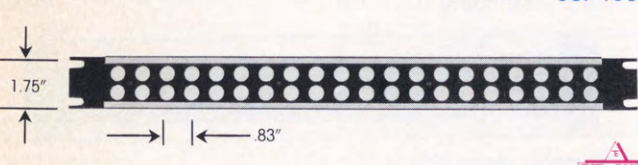
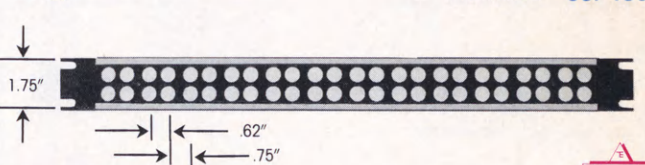
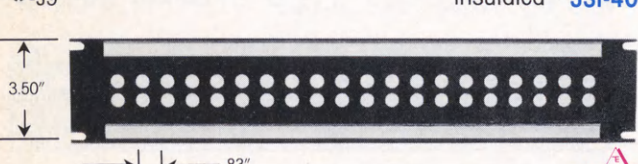
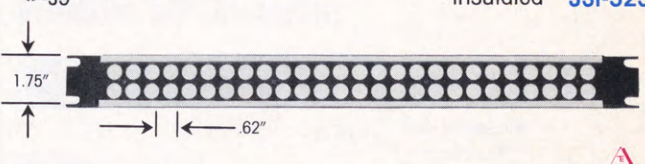
PANELS

STANDARD PATCH PANEL * -J14, J15 Non-insulated JS-12 Insulated JSI-12  	STANDARD PATCH PANEL * -J14, J15 Non-insulated JS-24W Insulated JSI-24W  
STANDARD PATCH PANEL * -J14, J15 Non-insulated JS-14 Insulated JSI-14  	STANDARD PATCH PANEL * -J9, J14, J15 Non-insulated JS-26 Insulated JSI-26  
STANDARD PATCH PANEL * -J14, J15 Non-insulated JS-16 Insulated JSI-16  	STANDARD PATCH PANEL * -J9, J14, J15 Non-insulated JS-28 Insulated JSI-28  
STANDARD PATCH PANEL * -J14, J15 Non-insulated JS-20 Insulated JSI-20  	STANDARD PATCH PANEL * -J9, J10 Non-insulated JS-28A Insulated JSI-28A  
STANDARD PATCH PANEL * -J9, J14, J15 Non-insulated JS-24S Insulated JSI-24S  	STANDARD PATCH PANEL * -J14, J15 Non-insulated JS-28W Insulated JSI-28W  
STANDARD PATCH PANEL * -J9 Non-insulated JS-24L Insulated JSI-24L  	STANDARD PATCH PANEL * -J9 Non-insulated JS-32A Insulated JSI-32A  

* -Panel will not accept listed jacks, **Standard Patch Jacks** pages 7-10 & 47

PANELS

Standard Patch

STANDARD PATCH PANEL * -J9  Non-insulated JS-32S Insulated JSI-32S 	STANDARD PATCH PANEL * -J14, J15  Non-insulated JS-40W Insulated JSI-40W 
STANDARD PATCH PANEL * -J9, J14, J15  Non-insulated JS-36 Insulated JSI-36 	STANDARD PATCH PANEL * -J9  Non-insulated JS-48 Insulated JSI-48 
STANDARD PATCH PANEL * -J9  Non-insulated JS-36A Insulated JSI-36A 	STANDARD PATCH PANEL * -J9  Non-insulated JS-48A Insulated JSI-48A 
STANDARD PATCH PANEL * -J9  Non-insulated JS-40S Insulated JSI-40S 	STANDARD PATCH PANEL * -J9  Non-insulated JS-48S Insulated JSI-48S 
STANDARD PATCH PANEL * -J9  Non-insulated JS-40 Insulated JSI-40 	STANDARD PATCH PANEL * -J9  Non-insulated JS-52S Insulated JSI-52S 

OBSESSION: On-Time Delivery!

Zip Ship Service



Remember . . . the **ZIP-SHIP** symbol means that we can **Zip** stock products from our expanded inventory and **Ship** them **FedEx, DHL, UPS** or via your routing within 24 hours of receipt of your order! Lead times for many Non-stock or Custom items have been cut from 12 weeks to 8 weeks or less!

Ask about ZIP-SHIP Service when you phone in your order.

*-Panel will not accept listed jacks, **Standard Patch Jacks** pages 7-10 & 47

PANELS

Standard Patch, Miniature 75Ω Patch

STANDARD PATCH PANEL *-J14, J15 Non-insulated JS-52 Insulated JSI-52	Patch Panels for Miniature Coax 50Ω These 19" panels are tapped .312-32-2A to accept J8 & J8D jacks with vertical and horizontal hole spacing .5" center-to-center unless otherwise noted. Both insulated and non-insulated panels have stiffener bars. Used for high density 50Ω patching.
STANDARD PATCH PANEL *-J9, J14, J15 Non-insulated JS-52W Insulated JSI-52W	MINIATURE COAX 50Ω Patch Panel Non-insulated JS-32 Insulated JSI-32
STANDARD PATCH PANEL *-J9, J14, J15 Non-insulated JS-56 Insulated JSI-56	MINIATURE COAX 50Ω Patch Panel Non-insulated JS-64S Insulated JSI-64S
STANDARD PATCH PANEL *-J9, J14, J15 Non-insulated JS-72 Insulated JSI-72	MINIATURE COAX 50Ω Patch Panel Non-insulated JS-64L Insulated JSI-64L
PANEL HOLE PLUGS Patch Panel Type Miniature 50Ω Miniature 75Ω Standard Part Number HP250 HP358 HP437 Jack Hole Plugs Jack Type Miniature 75Ω Standard Part Number HP304 HP375 Note: Number denotes hole size in thousandths. HP437 HP375 HP250	MINIATURE COAX 50Ω Patch Panel Non-insulated JS-96A Insulated JSI-96A
	MINIATURE COAX 50Ω Patch Panel Non-insulated JS-96B Insulated JSI-96B

PANELS

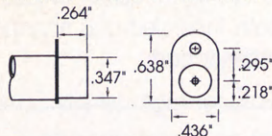
PANELS

Miniature Match 75Ω, Cable Distribution & "D" Hole Specifications

Miniature 75Ω Coax Patch Panels

For high density, low VSWR 75Ω coaxial applications (microwave, sub-carrier telephone systems, etc.) Trompeter's J12 jack and the PL11C plug combination have a VSWR of 1.04:1 in the 60-80 MHz range.

Jack Mounting Detail



"D" HOLE SPECIFICATIONS

Throughout the catalog you will find "D" Holes called out for bulkhead jacks.

Example: **D2 . 140**

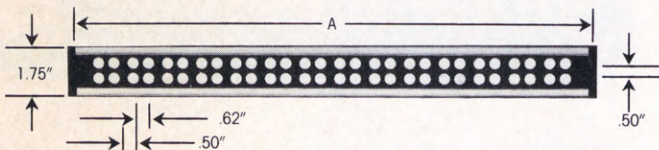
"D" Hole Type _____
Maximum panel thickness _____

MINIATURE COAX 75Ω

Insulated Patch Panel

Rack Mount **JSIX-56**

Flush Mount **JSIX-56F**

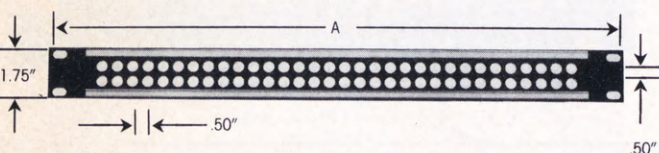


MINIATURE COAX 75Ω

Insulated Patch Panel

Rack Mount **JSIX-64S**

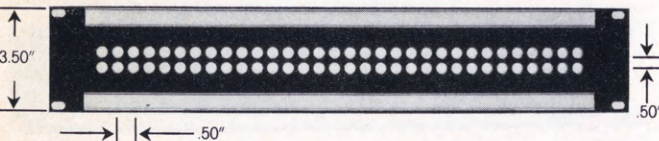
Flush Mount **JSIX-64SF**



MINIATURE COAX 75Ω

Insulated Patch Panel

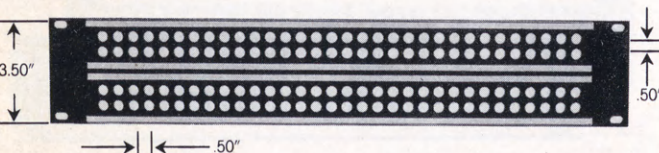
Rack Mount **JSIX-64L**



MINIATURE COAX 75Ω

Insulated Patch Panel

Rack Mount **JSIX-128**



Miniature Coax 75Ω Patching
page 18

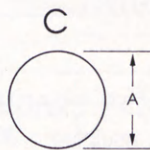
Miniature Coax 75Ω Patching
page 48

Custom Panels
page 6

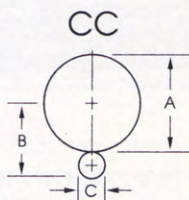
"D" Hole

Type A B C

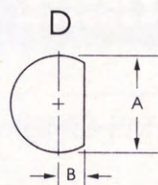
C1 .317"
C2 .375"
C3 .437"
C4 .468"
C5 .505"
C6 .755"



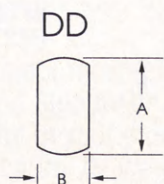
CC1 .640" .370" .136"



D1 .755" .343"
D2 .630" .281"
D3 .505" .218"
D4 .439" .187"
D5 .380" .317"
D6 .317" .128"
D7 .281" .125"
D8 .610" .285"
D9 .567" .257"
D10 .192" .079"
D11 1.005" .470"

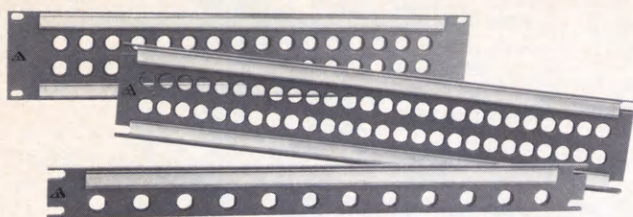


DD1 .630" .532"
DD2 .380" .312"
DD3 .505" .443"
DD4 .630" .526"
DD5 .475" .436"
DD6 .760" .690"
DD7 1.140" 1.060"
DD8 .335" .278"



Cable/Data Distribution Panels

CABLE DISTRIBUTION PANELS



# of holes	Panel Type	Panel Ht.	Hole Hor.	Spacing Vert.	Table Col.
5	JS(I)-5	1.75"	2.500"	—	A
8	JS(I)-8	1.75"	2.070"	—	B
10	JS(I)-10	1.75"	1.656"	—	C
12	JS(I)-12	1.75"	1.430"	—	D
14	JS(I)-14	1.75"	1.210"	—	E
16	JS(I)-16	1.75"	1.000"	—	F
20	JS(I)-20*	1.75"	0.830"	—	G
24	JS(I)-24	1.75"	1.460"	1.250"	H
24	JS(I)-24W	3.50"	1.430"	1.000"	I
32	JS(I)-32	3.50"	1.000"	1.000"	J
40	JS(I)-40*	3.50"	0.875"	1.000"	K
40	JS(I)-40W*	3.50"	0.875"	1.000"	L
52	JS(I)-52	3.50"	0.675"	1.000"	M

*JS(I)-20 - Hor. spacing 0.875" for D2 and D3 hole types.

*JS(I)-40 - Hor. and Vert. spacing 0.830" for D3 hole types.

*JS(I)-40W - Hor. spacing 0.830" for D3 hole types.

Panels accommodate the appropriate Trompeter bulkhead jacks designated by an "*" in the table to the right. Panels are 19" long and 1.75" or 3.50" high. Panel specifications are on page 54.

To order Cable Distribution Panels

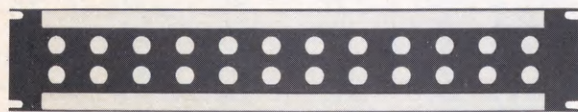
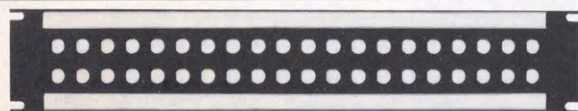
use the following format:

***JS-12 D2SF8/BJ72**

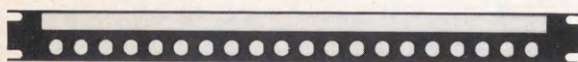
Panel Type (from above) _____
 "D" Hole (from table) _____
 Jack Type (from table) _____

JS - Aluminum panel (Open notch)

JSI - Insulated panel (Closed notch)



↑
3 1/2"
↓



↓
1 3/4"
↑

DHoles

Panel Columns

Jacks

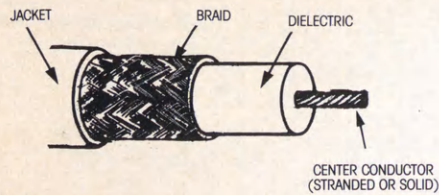
75Ω-Version prefixed "U"

D Hole	A	B	C	D	E	F	G	H	I	J	K	L	M	U	Jack 2:3:4 Lug	Threaded
DD4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	AD 95	
DD4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	ADI 95	
D 5SF 5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 20	
D 3SF 6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 21	
D 2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 26	
D 8SF 12	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 26GF	
D 3SF 7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 27	
D 3SF 7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 28	
D 8SF 11	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 28GF	
D 2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 29-6 LRG BDY	
D 5SF 5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 30	BJ330
D 3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 31	BJ331
D 3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 32	BJ332
D 3SF 8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 38	BJ388
D 3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 39	BJ339
D 5SF 5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 40	
D 3SF 6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 41	
D 2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 46	
D 8SF 12	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 46GF	
D 3SF 7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 47	
D 3SF 7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 48	
D 8SF 11	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 48GF	
D 2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 49-6 LRG BDY	
D 6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 50/FL	BJ350
D 4SF 2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 57/FL	BJ357
D 5SF 9	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 58/FL	
D 4SF 4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 59/FL	BJ359
D 2SF 8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 72/TL/FL	BJ372
D 2SF 8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 73/TL/FL	BJ373
D 2SF24	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 74/TL/FL	BJ374
D 2SF24	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 74C/TL/FL	BJ374C
D 2SF24	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 75/TL/FL	BJ375
D 4SF25	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 77/TL/FL	BJ377
D 3SF13	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 78/TL/FL	BJ378
D 3SF15	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 79/TL/FL	BJ379
D 3SF15	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 79C/TL/FL	BJ379C
D 1SF 1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 80, BJ803	BJ380
D 1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 83, BJ833	BJ383
D 1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 88, BJ883	BJ388
D11	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 89	BJ389
DD6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 89, BJ893	BJ389
DD1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 95 LRG BDY	
DD4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 95 LRG BDY	
DD4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 96	
DD4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 98	
D 2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 101	
D 2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 102	
DD2SF14	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 130	
DD2SF30	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 138	
DD2SF30	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 139	
D 4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 150/FL	BJ3150
D 9	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 152/FL	BJ3152
D 9SF 12	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 153/FL	BJ3153
D 9SF 12	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 154/FL	BJ3154
D 9SF 12	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 154AC/FL	BJ3154AC
D 6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 157/FL	BJ3157
D 5SF 9	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 158/FL	
D 4SF 4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 159/FL	BJ3159
D 4SF 4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 159AC/FL	BJ3159AC
D 2SF 3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 226	
D 8SF 12	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 226GF	
D 3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 229	
D 2SF 3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 246	
D 8SF 12	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 246GF	
D 3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 249	
D 4SF 9	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 358	
DD8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 450	BJ3450
DD8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 457	BJ3457
DD8SF31	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 459	BJ3459
D11	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 893 LRG BDY	
D 3SF 7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 2848	REAR
D 4SF 9	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 3158	*
D 3SF 7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BJ 4828	REAR
D 9SF12	•	•	•	•	•	•	•	•	•	•	•	•	•	•	CBJ 155/FL	BJ3155
D 5SF 10	•	•	•	•	•	•	•	•	•	•	•	•	•	•	J 95	
D 4SF25	•	•	•	•	•	•	•	•	•	•	•	•	•	•	J 152FLFT	
D 4SF 25	•	•	•	•	•	•	•	•	•	•	•	•	•	•	J 152FT	J3152FT
DD5SF6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	PL 122	
DD8SF31	•	•	•	•	•	•	•	•	•	•	•	•	•	•	TBJ 451/FL	
D 3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	UBJ 29	
D 3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	UBJ 49	

COAXIAL CABLES

Max, Twinax, Triax & Quadrax Cables

COAX CABLES



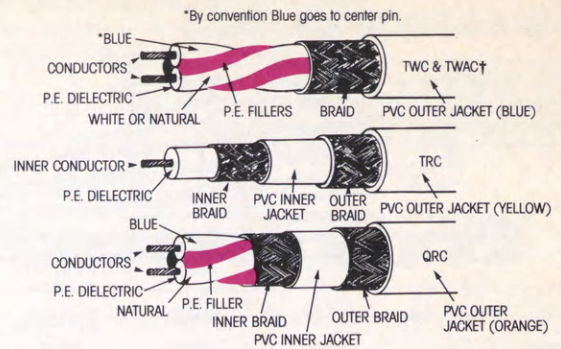
TWINAX



TRIAx



QUADRAx



TROMPETER COAX CABLES:

Coax cables are manufactured to the listed specifications and offer optimum flexibility, shielding and performance. Cables with stranded center conductors have greater flexibility and are recommended for short runs at low frequency where constant cable movement might fatigue a single copper-weld center conductor.

Trompeter Twinax, Triax and Quadrax Cables:

Cables are manufactured to the listed specifications. M17/176-00002 and TWAC-78-1F2 are 200° Hi Temp cables for MIL-STD. Dielectric and fillers are P.T.F.E. and outer jackets are PFA.

For information on cable construction and application see the appropriate section of the technical paper in appendix B.

All values without tolerances are nominal.

Cable Specifications: Coax

Designation	TCC-50-2	TCC-75-2	RG62 A/U	RG62 B/U
Impedance (Ohms)	50±2	75±3	93±5	93
Nominal Outer Dia.	0.195	0.242	0.242	0.242
PVC Outer Jacket	Green	Violet	Black	Black
Braid Outer Dia.	0.150	0.191	0.196	0.191
Braid AWG * /Material	36/Tinned Cu	34/Bare Cu	34/Bare Cu	34/Bare Cu
Dielectric Outer Dia.	0.116	0.146	0.146	0.146
Dielectric Material	Solid PE	Foamed PE		
Conductor Outer Dia.	0.0375	0.0310	0.0253	Stranded
Conductor Strands/Material	19/0071 Tinned Cu	7/010 Tinned Cu	Solid	7/008 CCS
Minimum Bend Radius	1.00	1.00		
Max. Opr. Vac. (RMS)	1.4KV	1.7KV	750V	750V
Capacitance pF/Ft (Max.)	30.8	22.0	13.5	13.5
Cond. Loop Res. (Ω/M Ft.)		17.6		
Atten. db/100 ft:				
1 MHz	0.380	0.335	0.250	0.250
10 MHz	1.400	1.070	0.900	0.900
50 MHz	3.40	2.40	1.90	2.10
100 MHz	4.90	3.40	2.80	3.00
200 MHz	7.30	4.85	3.70	4.30
400 MHz	10.40	7.00	5.20	6.10
1 GHz	17.80	12.00	8.50	10.50
Shield Coverage	93%	93%		

Cable Specifications:

Twinax

Triax

Quad

Designation	TWC-78-1	TWC-78-2	M17/176-00002	TWAC-78-FL	TWC-124-1A	TWC-124-1	TRC-50-1	TRC-50-2	TRC-75-1	TRC-75-2	QRC-78-2
Impedance (Ohms)	78±3	78±3	78±5	77±7	124±5	124±4	50±2	50±2	75±5	75±2	78±3
Nominal Outer Dia.	0.150	0.242	0.129	0.095	0.150	0.245	0.156	0.245	0.189	0.245	0.286
Outer Braid Dia.	0.108	0.195	0.102	0.070	0.105	0.195	0.121	0.210	0.150	0.205	0.240
Core Outer Dia.	0.088	0.154	0.084	0.052	0.085	0.162					0.156
Dielectric Outer Dia.	0.044	0.076	0.042	0.026	0.043	0.080	0.047	0.116	0.073	0.116	0.079
Inner Braid Outer Dia.							0.069	0.146	0.093	0.146	0.170
Inner Jacket Outer Dia.							0.101	0.175	0.130	0.146	0.230
Conductor Outer Dia.	0.0220	0.0370	0.0240	0.0150	0.0120	0.0220	0.0150	0.0370	0.0120	0.0185	0.0400
Minimum Bend Radius	1.50	1.25	1.50	1.25	1.50	1.25	0.75	1.25	1.00	1.25	1.25
Max. Opr. VDC	0.6KV	2KV			0.6KV	2KV	2KV	6KV	2KV	6KV	
Max. Opr. Vac. (RMS)	0.3KV	1KV	1KV		0.3KV	1KV	1KV	2KV	1KV	2KV	2KV
Capacitance pF/Ft (Mz)	20.30	19.70	24.00	23.00	12.40	12.30	29.50	32.00	20.00	20.50	24.50
Cond. Loop Res. (Ω/M)	179.00	19.00	48.00	146.00	570.60	56.80					17.90
Atten. db/100 ft:											
1 MHz	2.000	0.600	1.40 Max.	2.000	3.250	0.540	2.800	0.500	0.900	0.480	1.000
3 MHz	3.000	1.000	2.100		4.400	0.920	3.100	0.800	1.300	0.880	1.600
4 MHz	3.500	1.200	2.400		4.800	1.060	3.300	0.900	1.500	1.010	
5 MHz	4.000	1.400	2.800		5.200	1.180	3.400	1.100	1.700	1.100	2.000
7 MHz	4.500	1.600	3.500		5.600	1.400	3.700	1.300	1.900	1.300	2.300
10 MHz	5.300	2.000	4.50 Max.	6.500	5.900	1.650	4.100	1.500	2.400	1.500	2.800
20 MHz	7.50	2.80			8.30	2.30	5.500	2.30	3.60	2.30	3.10
30 MHz	9.20	3.50			10.20	2.80	7.00	2.90	4.50	2.90	4.00
40 MHz	10.60	4.10			11.80	3.20	7.50	3.40	5.40	3.30	4.60
50 MHz	11.90	4.60			13.20	3.60	9.10	3.90	6.10	3.60	5.20
100 MHz	16.80	6.90			18.70	5.10	14.00	5.80	9.70	5.20	
200 MHz	23.70	9.90			26.40	7.20	22.00	8.80	16.50	7.60	
500 MHz	37.50	15.40			41.70	11.40	40.00	15.30	28.50	10.80	
700 MHz	44.30	18.30			49.40	13.50	50.00	18.00	36.00	14.70	
1 GHz	53.00	21.80			59.00	16.20	63.00	23.00	45.00	17.60	
Shield Coverage	93%	93%	90%	90%	93%	93%	93%	93%	93%	93%	93%
Twist per Ft.	8.0	4.0	13.0	16.0	8.0	4.0					4.1

CABLE MANUFACTURER'S & CABLE GROUP NUMBER TABLE

Manufacturer	Designation	Cable Group		Type	Ohms	Jacket O.D.	Cond. Dia.	Notes	Manufacturer	Designation	Cable Group		Type	Ohms	Jacket O.D.	Cond. Dia.	Notes
		Wrench	Tool								Wrench	Tool					
ACI	3-4112AT	•	-	TR	-	-	-		BELDEN	9171	2	-	C	-	-	-	
ACOME	N1472A	-	•	C	-	-	-		9192	•	-	TR	-	-	-	-	
AIR FORCE	8712812	10	10	TW	-	-	-		9207 (VR15662)	8	-	TW	100	.330	.039		
ALCATEL	L910/34	•	•	C	-	-	-		9209	2A	013	C	75	.220	.022		
ALPHA	1450/16	•	-	TW	-	-	-		9221	5	-	C	75	.102	.012		
	2818	8	-	TW	-	-	-		9222	7	-	TR	50	.242	.039	J	
	2827/2	29	207	TW	DATA	.120	.031	A	9225	6B	-	C	50	.425	.089		
	2834	•	-	C	-	-	-		9226	3	-	C	50	.212	.035		
	2834/2	45	-	TW	DATA	.137	.032		9228, RG62A/U TYPE	2	-	C	93	.242	.025	C	
	9158	1	011	C	-	-	-		9231 (WE729)	6	016	C	75	.304	.032		
	9180	4	008	C	-	-	-		9232	•	-	TR	-	-	-		
	9187A	36	007	C	75	.105	.010		9234	2	014	C	75	.242	.032		
	9804	41	-	C	75	.275	.040		9242	2	-	C	80	.242	.025		
	9807	51	-	C	-	-	-		9243, RG-59DS TYPE	2	014	C	75	.242	.032		
	9814C	-	213	TW	-	-	-		9248	41	020	C	75	.270	.036		
	9818	8	-	TW	-	-	-		9250, RG-22B TYPE	10	-	TW	95	.420	.046		
	9820	•	-	TW	124	.440	.051		9252	4	-	C	50	.160	.030		
	9851C	•	-	C	-	-	-		9254	4	-	C	-	-	-		
	9851F	50	-	C	-	-	-		9258	•	-	C	-	-	-		
	9858	-	011	C	-	-	-		9259, RG-59/U TYPE	2	014	C	75	.242	.031		
	9859	-	•	C	-	-	-	P	9264	•	-	C	-	-	-		
AMDAHL	215-900-000	5A	-	C	100	.075	.012		9265CX Side-RG59/U	2	013	C	75	.242	.031		
AMPEX	616-569	36	007	C	75	.110	.015		9266	•	•	C	-	-	-		
AMPHENOL	21-204	42	-	TR	-	-	-		9267	•	•	TR	-	-	-		
	21-597X1	•	-	C	-	-	-		9268	2B	018	C	93	.260	.025	C	
	82-5588	8	-	TW	100	.330	.039		9269, RG62A/U TYPE	2	013	C	93	.242	.025		
AMPHENOL CANADA	21-1060	6	016	C	-	-	-		9271	-	•	TW	-	-	-		
	621-446-795	6	-	C	-	-	-		9272	9	213	TW	78	.242	.037		
ANACONDA	2SWU-1	•	-	TR	-	-	-		9273, RG223 TYPE	3	012	C	50	.216	.035		
ASHLAND OIL		0	-	TW	-	-	-		9274, RG59/U TYPE	2	-	C	75	.242	.032		
ASTRO INDUSTRIAL	1414	33	-	TR	-	-	-		9283	41	-	C	-	-	-		
ASTRO LAB	32000	21	-	C	-	-	-		9284	41	-	C	75	.275	.040		
AT&T (W.E.CO)	16PEVL	12	-	TW	124	.460	.051		9290	-	•	C	-	-	-		
	724	6	016	C	75	.304	.033	C	9291	2	013	C	-	-	-		
	728	6	016	C	75	.304	.033	C	9292	6A	-	C	75	.405	.064	D	
	730A	2B	015	C	75	.255	.025	C	9301	2	-	C	75	.242	.032		
	731	2	015	C	75	.248	.023	C	9302	086	-	C	-	-	-		
	734A	63	025	C	75	.236	.031		9307	086	-	C	50	.085	.011	T	
	735A	-	026	C	75	.125	.016	C	9308	086	-	C	75	.085	.020	T	
	754E	10	-	TW	124	.420	.040		9311	1	-	C	-	-	-		
	760A	11	-	TW	124	.308	.025		9386	41	-	C	75	.275	.040		
	761A	30	027	TW	124	.215	.021		9414	•	-	C	-	-	-		
	KS-19224L2	-	027	C	75	.116	.011		9448	2A	-	C	-	-	-		
BELDEN	1162A	8	-	TW	-	-	-		9463	9	-	TW	-	-	-		
	1163A	6	016	C	-	-	-		9555 (DUALCOAX)	2	-	C	75	.242	.023		
	1163ACNFRMBL085	6	-	C	75	.305	.031		9587	41	-	C	-	-	-		
	1164ARGB	-	009	C	-	-	-		9589	2A	-	C	75	.242	.032	B	
	1167ARGBS	105	127	C	-	-	-		9592	2	-	C	75	.242	.032	B	
	1168ACNFRMBL141	141	-	C	50	.141	.037	T	9659	2	-	C	-	-	-		
	1263A	21	•	C	-	-	-		9688	•	-	TR	-	-	-		
	8208	7	-	TW	-	-	-		9729	8	-	TW	-	-	-		
	8212	2	014	C	75	.242	.032	C	9738	8	-	TW	-	-	-		
	8213	6A	-	C	75	.405	.064	D	9850	6B	-	C	75	.425	.048		
	8214	•	-	C	-	-	-		9859	9	213	TW	78	.235	.038		
	8216, RG174 TYPE	5	003	C	50	.100	.019		9860	46	-	TW	124	.440	.051		
	8218	4	009	C	75	.150	.017		9861, RG212 TYPE	6E	-	C	50	.332	.057		
	8219	1	-	C	50	.195	.037		9880	48	-	C	50	.405	.086		
	8221	2	013	C	80	.242	.025	C	9888	14A	-	TR	50	.480	.108		
	8227	8	-	TW	100	.330	.039		9907	1	011	C	-	-	-		
	8228	34	-	C	75	.242	.040		9913	•	-	C	-	-	-		
	8232	13A	-	TR	75	.315	.032		9914	•	-	C	-	-	-		
	8233	14	-	TR	75	.475	.064		81553	47	201	TW	78	.129	.024	P	
	8237	6A	-	C	52	.405	.085		82120	34	-	C	-	-	-		
	8240	1	-	C	53	.195	.032		83264	5	-	C	-	-	-		
	8241	2	013	C	73	.242	.025	C	83265	5A	-	C	-	-	-		
	8259	1	-	C	50	.195	.036		83266	22	008	C	-	-	-		
	8261	6A	-	C	75	.405	.049		83267	36	-	C	-	-	-		
	8263, RG59B/U TYPE	2	013	C	75	.242	.023		83310	29	207	TW	DATA	.120	.031	A	
	8279	2A	019	C	75	.220	.025		83318	29	204	TW	DATA	.132	.025	A	
	8281	6	016	C	75	.304	.032	C	83552	35	-	TW	-	-	-		
	8422	9	-	TW	DATA	.231	.025		86262, RG-62/U TYPE	2A	019	C	75	.220	.025	P	
	8441	30	-	TW	DATA	.210	.025		87108	2A	023	C	-	-	-		
	8451	-	210	TW	DATA	.140	.031		87120, RG-6/U TYPE	52	024	C	75	.256	.040	P	
	8761	28	-	Q	-	-	-		88232	•	-	TR	-	-	-		
	8946	•	-	TR	-	-	-		88240, RG-58/U TYPE	1	021	C	50	.178	.037		
	9054	2	-	C	-	-	-		88241 (BRN), RG-59/U	2A	022	C	75	.200	.023	P	
	9060	41	-	C	-	-	-		88241 (GRY), RG-59/U	2A	022	C	75	.193	.023	P	
	9068	4	009	C	-	-	-		88281	51	016	C	75	.304	.032	P	
	9104	2	-	C	75	.243	.032		88641	23	-	TR	-	-	-		
	9112	2	-	C	75	.242	.032		89108, RG-59/U TYPE	2A	023	C	75	.218	.032	P	
	9114	41	-	C	75	.275	.040	C	89120	52	024	C	75	.253	.040	P	
	9116	41	-	C	-	-	-		89162	2A	019	C	-	-	-		
	9141 (WE724)	6	016	C	75	.304	.033		89207	54	-	TW	100	.282	.039	P	
	9145, RG59/U TYPE	2A	014	C	75	.242	.032		89259, RG-59/U TYPE	-	-	C	-	.218	.030	X	
	9146	4	-	C	-	-	-		89269	2A	022	C	93	.222	.025	N,P	
	9167	2	-	C	-	-	-		89272	55	-	TW	78	.220	.039	P	
	9168	41	-	C	-	-	-		89555 (DOUBLE)	53	019	C	75	.230	.023	P	
	9170	4	-	C	-	-	-		89880 ETHERNET	50	-	C	50	.375	.086	L,P	

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Manufacturer	Designation	Cable Group		Type	Ohms	Jacket O.D.	Cond. Dia.	Notes	Manufacturer	Designation	Cable Group		Type	Ohms	Jacket O.D.	Cond. Dia.	Notes
		Wrench	Tool								Wrench	Tool					
BELDEN	89907	21	•	C	-	-	-		COMM/SCOPE	2290K	-	-	C	100	.271	.031	X
	AWMFR-1	•	-	C	-	-	-			2525	-	-	C	75	.290	.031	X
	I20423	2	-	C	-	-	-			2525K	-	-	C	75	.290	.031	X
	M9815	8	-	TW	-	-	-			3130	-	-	C	53	.195	.031	X
	YM-15338	1	016	C	52	.190	.036			3135	-	-	C	50	.195	.031	X
	YM-23930	-	014	C	-	-	-			3139	-	-	C	50	.195	.031	X
	YR-14910	29	-	TW	-	-	-			3250	-	-	C	50	.405	.086	X
	YR-15161	29	-	TW	-	-	-			4012	-	-	TW	78	.210	.031	X
	YR-19218	29	-	TW	-	-	-			4012K	-	-	TW	78	.210	.031	X
	YR-19641	•	-	C	-	-	-			5535	-	026	C	75	.125	.016	
	YR-19747	•	-	C	-	-	-			5550	-	-	C	75	.242	.025	X
	YR-21153	•	•	C	-	-	-			5552	-	-	C	75	.242	.031	X
	YQ-11483	5	-	C	-	-	-			5555	-	-	C	80	.242	.025	X
BELL LABS	G243630-1	4	-	C	50	.155	.010			5560	-	-	C	73	.242	.025	X
	G243630-2	4	-	C	50	.155	.010			5565	-	-	C	75	.242	.031	X
	WP19681-L-2	5	-	C	-	-	-			5567	-	-	C	75	.242	.031	X
BELL CORE	RG6 (TYPE)	-	022	C	-	-	-			5568	63	025	C	75	.236	.031	
BERK-TEK	640114 (DC58-NET)	21	-	C	-	-	-			5572	-	-	C	75	.242	.031	X
	BTDC-59-TT	2	022	C	-	-	-			5715	41	020	C	75	.272	.040	
	BTDC-59D-TT	2A	-	C	75	.242	.023			5725	-	-	C	75	.272	.040	X
	BTX-0113-100175	43	-	TR	100	.175	.011			5903	-	-	C	75	.405	.064	X
BICC	2003	•	-	C	-	-	-			5908	6A	-	C	75	.405	.040	
BIW (NUCLEAR GR)	11735-C-G24 (RG-59)	34	-	C	75	.242	.025			5909	-	-	C	75	.405	.040	X
BOEING	37-112-1	32	-	TR	-	-	-			5940	6A	-	C	75	.405	.064	
	380-10045	60	305	TR	95	.189	.012			6200	-	-	C	93	.242	.025	X
BOSTON INSLTD	11735-C-G24	34	-	C	-	-	-			6605	-	-	C	93	.260	.025	X
BRAND-REX	71124Y18978	•	-	TW	-	-	-			750C	-	-	C	75	.304	.031	X
	736211	•	-	TW	-	-	-			7510	-	016	C	75	.304	.031	
	A-779	5	-	C	75	.090	.010			7723	-	-	C	50	.212	.036	X
	B-749	44	-	C	75	.080	.012			7810	-	-	TR	75	.325	.031	X
	CS75146	•	-	C	-	-	-			7815	-	-	TR	50	.480	.090	X
	LS2SL	•	-	TW	-	-	-			7820	-	-	TR	75	.475	.090	X
	T-378	6	016	C	75	.312	.031	C		7901	-	-	TW	100	.325	.031	X
	T-385	44	-	C	75	.080	.012	C		9012	-	-	TW	78	.242	.025	X
	T-10971	24	221	TW	77	.161	.024	J	CONSOLIDATED	4407	•	-	C	-	-	-	
	T-13295	42	-	TR	-	-	-			4460	•	-	TR	-	-	-	
	T-2948	26	-	TR	75	.165	.012			4463, (RG58)	42	-	TR	50	.285	.036	
	T-546	•	-	TR	-	-	-			4463, (RG58)	42	-	TR	50	.285	.036	
BRITISH TELEPHONE	BT2003	•	-	C	-	-	-			4481	•	-	TR	-	-	-	
CALMONT	4141	24	211	TW	160	.168	.012		D&S NORTECH	SB36456	•	-	TR	-	-	-	
CANARE	301	-	009	C	-	-	-			CDC-5013640-42	•	-	C	-	-	-	
	3C2VS	•	-	C	-	-	-		DABURN	D-43M	25	-	TW	124	.265	.019	
	5C2VS	6	016	C	75	.292	.031		DEC	FEP17-01246-01/02/03	3	011	C	-	-	-	
	LV61S	2	013	C	75	.242	.023			FEP17-0246-01/02	3	011	C	-	-	-	
	LV77	6	-	C	DATA	.304	.032			FEP17-0248-01/02	3	011	C	-	-	-	
	LV77S	-	016	C	-	-	-			PVC17-01248-01/02/03	3	011	C	-	-	-	
CAROL	C1103, RG59/U	2	013	C	-	-	-		DOD	DOD-DNA-RF-21	9	-	TW	-	-	-	
	C1163, RG62/U	2	013	C	-	-	-			DOD-DNA-RF-21	9	-	TW	-	-	-	
CASCO	2C227, NPCSN	45	-	TW	-	-	-		ERICSON	TZC75005	-	•	C	-	-	-	
CDC	15013640-42	•	-	C	-	-	-			TZC-75005	•	•	C	-	-	-	
	YR-20582	•	-	C	-	-	-		ESSEX	1000	6A	-	C	-	-	-	
CES	1805-0229E39829	-	-	-	-	-	-	X		1000	6A	-	C	50	.405	.085	
CHAMPLAIN	51-04417, (RG-62)	2	-	C	98	.232	-	P		1000	6A	-	C	-	-	-	
	51-04423	•	-	TR	-	-	-			2001	7	-	TR	-	-	-	
	51-04496	47	-	TW	-	-	-			2001	7	-	TR	-	-	-	
	51-04496	47	-	TW	-	-	-			21-004	6A	-	C	50	.405	.085	
	51-05091	58	217	Q	77	.145	.025	S		21-025	2	-	C	73	.242	.025	
	5M2022-001	-	206	TW	-	-	-			21-204	42	-	TR	50	.285	.036	
	5M2022-003	•	-	TW	-	-	-			21-529	4	-	TR	75	.460	.049	
	81-00440	•	-	TW	-	-	-			21-537	1	011	C	50	.195	.036	
	81-00486	•	-	TR	-	-	-			21-541	2	013	C	73	.242	.025	
	81-00487	-	007	C	-	-	-			21-583	5	-	TR	52	.490	.085	
	81-00487	-	007	C	-	-	-			21-597	4	009	C	75	.150	.017	
	81-00558	•	-	TR	-	-	-			21-780	6B	-	C	50	.420	.087	
	RG-62 TYPE	2	013	C	93	.242	-			21-795	2	-	C	75	.242	.023	
	RG62 TYPE	2	013	C	93	.242	-			21-950	6	-	TW	124	.615	.051	
	ST5M1212-002	29	202	TW	70	.150	.022			421-098	22	008	C	95	.145	.012	
COAXCO	1102	23	-	TR	40	.140	.020			421-111	4	008	C	95	.155	.012	
COMM/SCOPE	0222	4	•	C	75	.155	.020			421-176	1	-	C	50	.195	.039	
	0232	4	•	C	75	.155	.020			621-100	6A	-	C	75	.405	.064	D
	0259	-	-	C	75	.285	.040	X		621-106	7	-	TR	72	.242	.025	
	2041	-	-	C	75	.200	.022	X		621-243	41	-	C	75	.270	.040	
	2041K	-	-	C	75	.200	.022	X		621-284	41	-	C	75	.270	.040	
	2045	-	-	C	75	.204	.031	X		621-715	1	-	C	75	.195	.025	
	2045K	-	-	C	75	.204	.031	X	EXTRON	22-021-01	5	003	C	-	-	-	
	2100	-	-	C	53	.170	.031	X		003-R003	37	-	C	75	.160	.020	
	2100K	-	-	C	53	.170	.031	X	FELTON & GUILAUME	1.0S/4.5S	•	-	TW	-	-	-	
	2250	-	-	C	93	.207	.025	X		1.4S/6.6S	•	-	TR	-	-	-	
	2250K	-	-	C	93	.207	.025	X	FILECA	F1703-51	-	217	C	-	-	-	
	2251	-	-	C	93	.207	.025	X		F1709-46	•	-	C	-	-	-	
	2251K	-	-	C	93	.207	.025	X	FILOTEX	F2703-51	-	217	TW	-	-	-	
	2275	-	-	C	75	.251	.040	X		63247	-	212	TW	125	.179	.025	
	2275K	-	024	C	75	.251	.040			EDE62385	-	009	C	-	-	-	
	2279	-	024	C	75	.240	.040			EDE62385	•	009	C	-	-	-	
	2279K	-	024	C	75	.240	.040		GE	5930273-1	•	-	TW	-	-	-	
	2280	-	-	C	50	.375	.086	X		7531352P1	31	-	C	-	-	-	
	2280K	-	-	C	50	.366	.086	X		7531352P1	31	-	C	-	-	-	
	2290	-	-	C	100	.271	.031	X	GENERAL	2SWU-1	•	-	TW	-	-	-	

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CABLE MANUFACTURER'S & CABLE GROUP NUMBER TABLE

Manufacturer	Designation	Cable Group		Type	Ohms	Jacket O.D.	Cond. Dia.	Notes	Manufacturer	Designation	Cable Group		Type	Ohms	Jacket O.D.	Cond. Dia.	Notes
		Wrench	Tool								Wrench	Tool					
GENERAL	T-43	10	-	TW	124	.420	.040		HITEMP	SP50-738CWSSTJ	5A	-	C	50	.085	.012	P
	T-43M	25	-	TW	124	.265	.019			3C2V	•	016	C	-	-	-	
	V1-AL	12	-	TW	124	.460	.051			5C2V	•	016	C	-	-	-	
	V1-DSAL	28	-	Q	124	.530	.050		HUGHES	710855-35	•	-	TR	-	-	-	
	V2-AL	•	-	TW	-	-	-			710922-13	•	-	TW	-	-	-	
GENERAL INSTRMNT	O232	4	-	C	-	-	-			HMS-1480/2	45	-	TW	-	-	-	
	2104	•	•	C	-	-	-			HMS2-1149/2	•	-	TW	-	-	-	
GENERAL WIRE PROD	E102194	-	214	TW	-	-	-			HMS2-1149/27	•	-	TW	-	-	-	
GEPCO	7174	-	-	C	50	.101	.019	X		HMS2-1149/28	•	-	Q	-	-	-	
	RGBS809 (3 COAX)	-	009	C	75	.150	.021			HMS2-1149/75	•	-	TR	-	-	-	
	RGBS809 (4 COAX)	-	009	C	75	.150	.021			HMS2-1149/76	-	•	TW	-	-	-	
	RGBS809 (5 COAX)	-	009	C	75	.150	.021			HMS2-1149/78	-	223	TW	68	.104	.019	
	V618J59	-	013	C	75	.242	.023		IBM	010-7362061/4885844	•	-	TW	-	-	-	
	V618M59	-	013	C	75	.242	.023			4885584	-	022	C	93	.222	.025	R
	V618M59TK	-	105	C	75	.200	.023			7362211	8	-	TW	100	.330	.039	
	VDFM809	-	009	C	75	.150	.021		INSULATED WIRE	101	5	-	C	-	-	-	
	VDFM809 (2 COAX)	-	-	C	75	.150	.021	X		175	•	-	C	-	-	-	
	VE61859	-	014	C	75	.242	.030		INTERCOMP	1805-0199	•	-	TW	-	-	-	
	VFM809	-	009	C	75	.150	.021		ITT	14397	32	-	TR	-	-	-	
	VP6000	-	016	C	75	.304	.032		JUDO WIRE	SS502401	5	003	C	-	-	-	
	VP618PE	-	016	C	75	.304	.032		KEITHLEY	SC-22	23	-	TR	40	.140	.020	
	VP618PVC	-	016	C	75	.304	.032		KEITHLY INSTRUMENT	SC-103	•	-	TW	-	-	-	
	VP618TK	-	105	C	75	.278	.032			SC-22	23	-	TR	-	-	-	
	VPM1000	-	013	C	75	.242	.023		KYLE	09-40312	•	-	TR	-	-	-	
	VPM2000	-	014	C	75	.242	.032		LEONI	TZC75005	•	-	C	-	-	-	
	VPM2000TK	-	105	C	75	.200	.032		LOCKHEED	ABA	29	206	TW	DATA	.120	.025	A
	VPM618	-	022	C	75	.220	.027		LYNN CABLE	RGB307/U	•	-	C	-	-	-	
	VSM618	-	009	C	75	.150	.017		MVA-COM	2250 (PLENUMAX)	53	022	C	-	-	-	
GERMANY GORE	GEEIA	25	-	TW	124	.265	.019			7810	13	-	TR	-	-	-	
	O5202 (UK)	-	201	TW	-	-	-		MADISON	52514F	•	-	C	-	-	-	
	190	•	-	C	-	-	-			E47331	•	-	TW	-	-	-	
	CO6C032	44	-	C	75	.075	.019		MALCO	1263-3301	•	-	C	-	-	-	
	CXA-8206	•	-	TW	-	-	-			293-3922-0000	•	-	TR	-	-	-	
	CXN-1223	•	-	TW	-	-	-		MANHATTAN	4-BTDC-62-TT	•	-	C	-	-	-	
	CXN-1267	•	-	TR	-	-	-			M1112	•	-	TW	-	-	-	
	CXN-1318	•	-	C	-	-	-			M4207	6A	-	C	75	.405	.048	
	CXN-1362	36	-	C	50	.101	.031			M4216	2B	013	C	93	.260	.025	
	CXN-1363A	21	-	C	50	.155	.050			M4227	9	213	TW	-	-	-	
	CXN-1366	•	-	C	-	-	-			M4772	•	-	TW	-	-	-	
	CXN-1384	•	-	C	-	-	-			RG59, 2CLP TYPE	-	•	C	-	-	-	
	CXN-1426A	-	•	C	-	-	-		MARTIN MARIETTA	EG3722GS29	•	-	TW	-	-	-	
	CXN-1428A	•	-	C	-	-	-			STME637-2	-	206	TW	-	-	-	
	CXN-1519	•	-	C	-	-	-		MAXBRAID	PLENECON	2A	-	C	-	-	-	
	CXN-1549	•	-	TR	-	-	-			RG58/U	1	021	C	-	-	-	
	CXN-1583	•	-	C	-	-	-		MC BRIDE	OCE597X	•	-	TR	-	-	-	
	CXN-1666	•	-	TR	-	-	-		MC DONNELL	5M2022-001	-	206	TW	-	-	-	
	CXN-1701A	•	-	C	-	-	-		DOUGLAS	5M2022-003	-	204	TW	-	-	-	
	CXN-1702A	•	-	C	-	-	-			5M2142-001	•	-	TR	-	-	-	
	CXN-1722	•	-	C	-	-	-			5M2397-001	•	-	TR	-	-	-	
	CXN-1735	•	-	TR	-	-	-			5M2397-002	23	303	TR	-	-	-	
	CXN-1851	•	-	C	-	-	-			ST5M1212-003	•	-	TW	-	-	-	
	CXN-1920	•	-	TW	-	-	-			ST5M1284-001	•	-	TR	-	-	-	
	CXN-2223	24	-	TW	-	-	-			ST5M1323	•	-	TR	-	-	-	
	CXN-2280A	•	-	C	50	-	-		MERCURY	DOD/DNARF21	-	214	TW	-	-	-	
	CXN-2317	•	-	C	50	-	-			202-3808	•	-	TW	-	-	-	
GRUMMAN	DXSN-1577	•	-	TW	-	-	-		MICRODOT	202-3853-009	29	-	TW	-	-	-	
	GSCI-620	•	-	TW	50	-	-			202-3927	-	208	TW	-	-	-	
	SR-AE-0004/1	•	-	TW	50	-	-			202-3927	27	208	TW	125	.110	.011	
	GC875GBI	57	302	TR	50	.164	.033	A		202-3932	•	-	TW	-	-	-	
	GC875GC1	56	301	TR	95	.164	.012	A		202-3934	24	211	TW	160	.168	.012	
	GC875GP1	31	006	C	50	.128	.020			202-3942	27	209	TW	125	.120	.012	
	GC875LNI	59	-	TW	75	.167	.020			250-3804	•	-	C	-	-	-	
	GC875MS1-22	-	304	TR	N/A	N/A	N/A			250-3833	47	-	TW	-	-	-	
	GC875PD1	5A	-	C	50	.063	.012			250-3834	5A	-	C	50	.075	.012	
	GC875RM1	45	204	TW	78	.144	.025			250-3836	•	-	TW	-	-	-	
HABIA	GC875RR1	33	220	Q	77	.179	.025	J		250-3884	23	-	TR	50	.140	.012	
	GC875TM24H	58	217	Q	77	.160	.025	S		250-3902	•	-	C	-	-	-	
	31482-009-02	47	-	TW	-	-	-			250-3908	•	-	C	-	-	-	
	C000216	-	009	C	-	-	-			250-3937-0000	•	-	TR	-	-	-	
	R66-DGC	-	•	C	-	-	-			250-3967	5	-	C	50	.110	.020	
HARBOUR	RG62F(CB)F	-	013	C	-	-	-			250-4021	5	-	C	50	.116	.020	
	11-0007	5	-	C	-	-	-			250-4044	43	-	TR	50	.175	.032	
	11-0007	31	-	C	50	.128	.020			250-4045	43	-	TR	50	.175	.032	
	U062FRG-2222-ITS9-NAT	2A	-	C	-	-	-			250-4049	•	-	C	-	-	-	
HARRIS	SM-A-975015	•	-	TR	-	-	-			250-4063	5A	-	C	50	.085	.012	
HAVEG INDUSTRIES	51-04416	-	223	TW	68	.104	.019			250-4070	•	-	TR	-	-	-	
	51-04423	•	-	TR	-	-	-			250-4172	•	-	C	-	-	-	
HEWLETT PACKARD	8120-0049	4	-	C	DATA	.155	.010			250-4180	5	004	C	50	.110	.019	
	8120-0102	5	-	C	-	-	-			250-4207	•	-	C	-	-	-	
	8120-0789	5B	-	C	50	.110	.015			250-4208	•	-	C	-	-	-	
	8120-1105	5B	002	C	50	.110	.015			250-4816-009	23	-	TR	50	.140	.012	
	8120-1252	5B	-	C	-	-	-			275-3930	23	-	TR	75	.140	.012	
	8120-1289	2B	015	C	75	.255	.025			275-3962	26	-	TR	75	.165	.012	
	8120-1380	5B	-	C	-	-	-			275-3991/616-569	36	007	C	75	.110	.015	
	8120-9026	5B	-	C	50	.110	.015			293-3902M	•	-	C	-	-	-	
	117P80680	50	-	C	50	.375	.086			293-3922	60	305	TR	-	-	-	
	CE05900	-	013	C	75	.210	.025	A,P		293-3930	43	-	TR	100	.175	.011	
	RG62AU	•	-	C	-	-	-			293-3968	4	008	C	93	.155	.011	

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CABLE MANUFACTURER'S & CABLE GROUP NUMBER TABLE

Manufacturer	Designation	Cable Group		Type	Ohms	Jacket O.D.	Cond. Dia.	Notes	Manufacturer	Designation	Cable Group		Type	Ohms	Jacket O.D.	Cond. Dia.	Notes
		Wrench	Tool								Wrench	Tool					
MICRODOT	295-3801	4	008	C	95	.155	.010		NUCLEAR GR	RG-59 TYPE	34	-	C	75	.242	.025	
	295-3802	4	-	C	95	.144	.011			PEWC, 75 OHMS	-	016	C	-	-	-	
	295-3950	43	-	TR	95	.175	.012			PANAVIA	PAN6421	-	204	TW	-	-	-
	295-3952	43	-	TR	95	.175	.012		PHALO	PH-036-001-80152	2A	019	C	-	-	-	
	295-3958	•	-	C	-	-	-			PH-075-001-05678	•	-	TW	-	-	-	
	295-3995	56	-	TR	-	-	-			RG62 (TEFLON)	2A	•	C	-	-	-	
	295-3996	•	-	TR	-	-	-			450/11CTMA	•	-	C	-	-	-	
MIL-SPEC	M17/094-007179	5	-	C	-	-	-		RAYCHEM	810	37	-	C	75	.160	.020	
	M17/113-RG-316/U	5	003	C	50	.102	.020			0026A0024	•	-	TW	-	-	-	
	M17/116-RG307	•	-	TR	-	-	-			10584	24A	-	TR	95	.148	.012	
	M17/128	4	012	C	-	-	-		10586	24A	-	TR	95	.148	.012		
	M17/134-00001	7	-	TR	50	.245	.035		10595	•	-	TW	-	-	-		
	M17/135-00001	4A	-	TR	50	.500	.088		10598	24A	-	TR	95	.145	.012		
	M17/157-00001	4	-	C	-	-	-		10602	45	204	TW	78	.144	.025		
M17/163-00001	6A	-	C	50	.405	.089		10605-22-9	•	-	TW	-	-	-			
M17/164-00001, 2	6B	-	C	50	.425	.089		10606	•	-	TW	-	-	-			
M17/176-00002	47	201	TW	77	.129	.024		10612-24-9	-	204	TW	-	-	-			
M17/177-00001	60	305	TR	95	.184	.012		10613	-	222	TW	77	.154	.025			
M17/186-00001	•	-	TW	-	-	-		10614	24	221	TW	77	.161	.025	J		
M27500-22TE2T14	45	210	TW	DATA	.137	.032		2524A0424	-	212	TW	-	-	-			
MC24643/33-OIUN/LS2								2524E0114	-	212	TW	125	.179	.025			
SWU-1 (UNARMORED)	•	-	TW	-	-	-		2526D1114	-	219	TW	125	.154	.020			
RG-5B/U	6E	-	C	50	.328	.050		5012W5812	61	-	TR	50	.437	.089			
RG-6/U, RG-6A/U	6E	017	C	75	.332	.029	C	5018D3311	•	-	C	-	-	-			
RG-8/U	6A	-	C	50	.405	.085		5021D1331	1	011	C	50	.185	.036			
RG-9/U	6B	-	C	51	.420	.085		5021H5331	25A	-	TR	50	.258	.035			
RG-11/U	6A	-	C	75	.405	.047		5022E5111	57	302	TR	50	.164	.033	A		
RG-13/U	6B	-	C	74	.420	.048		5026A1614	44	-	C	50	.080	.019			
RG-22/U	10	-	TW	95	.409	.046		5026D5314	23	-	TR	-	-	-			
RG-22A/U & B/U	10	-	TW	95	.420	.046		5028A2211-9	44	-	C	-	-	-			
RG-55/U, RG-55B/U	3A	012	C	53	.206	.032		5028D5312	•	-	TW	-	-	-			
RG-55A/U	3	012	C	50	.216	.035		5030A1114	5A	-	C	50	.061	.012			
RG-58/U	1	011	C	50	.195	.036		5030A1214	5A	-	C	50	.061	.012			
RG-59/U	2	013	C	75	.242	.023	C	5030A1314	5A	-	C	50	.063	.012			
RG-62A/U	2	013	C	93	.242	.025		5030A1318	5A	-	C	50	.063	.012			
RG-62B/U	2	013	C	93	.242	.025	C	5030A1411	5A	-	C	50	.066	.012			
RG-63/U	6A	-	C	125	.405	.025	C	5030A1511	5A	-	C	50	.066	.012			
RG-71/U	2	015	C	93	.250	.025	C	7028A5518	26	-	TR	50	.143	.015			
RG-87A/U	6B	-	C	50	.390	.094	E	7518A0811	62	-	TR	75	.465	.048			
RG-108/U	9	213	TW	78	.235	.038	E	7522A1311	-	023	C	-	-	-			
RG-111/U	10	-	TW	95	.420	.046		7524D5111	•	-	TR	-	-	-			
RG-114/U	6A	-	C	185	.405	.007		7526D5318	59	-	TW	50	.167	.020			
RG-122/U	4	010	C	50	.160	.030		7528A1114	•	-	C	-	-	-			
RG-141/U	1	011	C	50	.190	.039		7528A5314	64	303	TR	75	.148	.015			
RG-142/U	1	012A	C	50	.195	.039		7528G1312-7	36	007	C	75	.110	.015			
RG-149/U	6A	-	C	75	.405	.049		7530A5314	29	-	TW	-	-	-			
RG-174/U	5	003	C	50	.100	.019		7720C8662	-	213	TW	-	-	-			
RG-178/U	5A	001	C	50	.075	.012		7724C8664-9	24	221	TW	77	.161	.024	J		
RG-179/U	5	004	C	75	.100	.012		7724D3664	58	217	Q	77	.145	.025	S		
RG-180/U, 180B/U	22	008	C	95	.145	.012		7820D0331-0	•	-	TW	-	-	-			
RG-187/U	5	004	C	75	.110	.012		7826D0130	29	206	TW	78	.120	.025			
RG-188/U	5	003	C	50	.110	.021		7826D1330	4	-	C	-	-	-			
RG-195/U	4	008	C	95	.155	.012		9528A1317	4	-	C	95	.137	.015			
RG-196/U	5A	001	C	50	.080	.012		9528A1417	4	-	C	95	.137	.015			
RG-212/U	6E	-	C	50	.332	.057		9528A1517	4	-	C	95	.137	.015			
RG-213/U	6A	-	C	50	.405	.089		9530A5117	24A	-	TR	95	.149	.012			
RG-214/U	6B	-	C	50	.425	.089		9530D5117	56	301	TR	95	.164	.012	A		
RG-216/U	6B	-	C	75	.425	.048		9530H1014	36	-	C	-	-	-			
RG-223/U	3	012	C	50	.216	.035	C	9530H1118	36	-	C	95	.108	.013			
RG-225/U	6B	-	C	50	.390	.094	E	9532A5114	23	-	TR	95	.140	.008			
RG-303/U	21	011	C	50	.170	.039		9532A5314	23	-	TR	95	.130	.008			
RG-304/U	41	-	C	50	.280	.059		EPD20653	•	-	TW	-	-	-			
RG-365	6B	-	C	50	.425	.089		EPD22030D	•	-	TW	-	-	-			
RG-400/U	1	012	C	50	.195	.039		EPD22030F	•	-	TW	-	-	-			
RG-402/U	41	-	C	50	.141	.036		EPD22188B	-	218	TW	78	.150	.025	J		
RG-405/U	86	-	C	50	.086	.020		EPD6499	33	220	Q	77	.179	.025	J		
MOHAWK	5305-8	10	-	TW	124	.420	.040		RAYTHEON	10271188	23	-	TR	93	.131	.009	
	M52001-HT10431	9	-	TW	-	-	-			RSS-6-104	2	-	C	62	.242	.032	
MONTROSE	6248	-	•	C	-	-	-		ROCKBESTOS	MP572-0279-0002	29	204	TW	75	.125	.025	A
	CBL6032	-	•	C	-	-	-			MP572-0328-0002	29	204	TW	75	.130	.025	A
	CBL6881	-	004	C	-	-	-		SAXTON	8315	•	-	C	-	-	-	
	CBL7005	-	004	C	-	-	-			8443	•	-	TR	-	-	-	
MOTOROLA	MCX7159 (RG179)	-	004	C	-	-	-		SEQUIA	1000NS1V	36	-	C	50	.120	.040	
	30-82921H01	21	-	C	-	-	-			SIECOR	8712812	47	201	TW	-	-	-
	D210-1	•	-	TW	-	-	-		SIEMENS	2YCCY	•	-	TR	-	-	-	
	D2241	•	-	TW	-	-	-		SIPPICAN	213034	27	-	TW	-	-	-	
NAVSEA	6262065-1	61	-	TR	50	.437	.089		STANDARD	1100-66F	45	210	TW	DATA	.145	.032	
	6322493	62	-	TW	75	.465	.048			WIRE/CABLE	-	-	-	-	-	-	
NCR	008-0126089	-	•	C	-	-	-		STRUCTURED TECH	STC-001	•	-	C	-	-	-	
	008-0126097	-	•	C	-	-	-			G03233D	3	-	C	75	.212	.017	
NEC	3C-2WS	-	•	C	-	-	-		SUHNER	G04233D	2B	-	C	75	.260	.023	
	3C-2WS	-	•	C	-	-	-			E41105-YAWM1874	-	•	C	-	-	-	
NIKKIAI	710855-30	•	-	TW	-	-	-		SUMITOMO	FVP219	10	-	TW	124	.420	.040	
	710855-35	•	-	TR	-	-	-			FVP224	9	214	TW	124	.242	.021	
NORTHERN ELECTRIC	RG-187DS TYPE	31	005	C	75	.120	.011	J	SUPERIOR	VP-1	2	-	TW	125	.460	.051	
NORTHERN TELECOM	NT-734	-	025	C	-	-	-			SURPRENANT	14433B	•	-	C	-	-	-
	05A077-1	24	221	TW	77	.161	.024	J	1AS-WTE-1929A		•	-	C	-	-	-	
NORTHROP	05A078-1	•	-	TW	-	-	-		-JTE-A2606	-	-	-	-	-	-		

CABLE MANUFACTURER'S & CABLE GROUP NUMBER TABLE

Manufacturer	Designation	Cable Group		Type	Ohms	Jacket O.D.	Cond. Dia.	Notes	Manufacturer	Designation	Cable Group		Type	Ohms	Jacket O.D.	Cond. Dia.	Notes
		Wrench	Tool								Wrench	Tool					
SURPRENANT	1S75MU-8	•	-	C	-	-	-		TROMPETER	TWAC-78-1F2	49	205	TW	78	.095	.015	P
	4236	37	-	C	DATA	.160	.017			TWC-78-1	29	202	TW	78	.150	.022	H
	8496	•	-	C	-	-	-			TWC-78-2	9	213	TW	78	.242	.037	H
	8946DS	•	-	C	-	-	-			TWC-124-1	•	-	TW	-	-	-	
	9872	4	009	C	75	.145	.017			TWC-124-1A	29	203	TW	124	.150	.012	H
	DBB12MBAC	•	-	C	-	-	-			TWC-124-2	9	214	TW	124	.246	.022	H
SYLVANIA (GTE)	19-805709-1	5A	-	C	50	.085	.012		UK	BICCT(M)3205	-	016	C	-	-	-	
	73-1317911-1	27	208	TW	125	.110	.011			BICCT(M)3304	-	015	C	-	-	-	
SYSTEMS	A/B-7/70	7	-	TR	-	-	-		UNICABLE	E-70425	•	-	C	-	-	-	
TENSOLITE	16490/50509YXX-1	•	-	TR	-	-	-			ICN417-2052P	4	-	C	-	-	-	
	1936-TX-10C2SW	47	201	TW	78	.129	.024		USAF	8712812	47	201	TW	-	-	-	
	24453/42810Q-2	58	217	Q	77	.145	.025	S		711-PAN6421	45	-	TW	-	-	-	
	24499/898X2	24	204	TW	DATA	.125	.025	A	VIDAR	RG-187DS TYPE	31	007	C	75	.125	.012	J
	26895/15X-1	•	-	TR	-	-	-			202-2964-222	57	-	TR	-	-	-	
	30488/40642X-1	•	-	TR	-	-	-		VOUGHT AERONAUTICS								
	30895/25L-1	60	-	TR	-	-	-			E-70431	022	-	C	-	-	-	
	4885584	-	022	C	-	-	-		WANG	16PEVL	12	-	TW	-	-	-	
	5M2142-001	•	-	TR	-	-	-			724	6	016	C	-	-	-	
	8712812	47	201	TW	-	-	-		WECO	728B	6	016	C	-	-	-	
	92607	•	-	TW	-	-	-			730A	2B	015	C	-	-	-	
	E6372429	•	-	TW	-	-	-		WEST PENN	731	2	-	C	-	-	-	
	SM2397-002	23	-	TR	-	-	-			754E	10	-	C	-	-	-	
	STME637-2	-	206	TW	-	-	-		WESTERN COMPONENTS	760A	11	-	TW	-	-	-	
	11040	29	204	TW	75	.125	.025	A		761A	30	-	TW	-	-	-	
	11079	29	204	TW	75	.130	.025	A	WESTINGHOUSE	25813	-	012	C	-	-	-	
	11421	-	223	TW	68	.104	.019			2806	34	-	C	-	-	-	
	11421	-	223	TW	-	-	-		WOODSON ELEC	814	-	013	C	-	-	-	
	11505	•	-	TW	-	-	-			843	-	014	C	-	-	-	
	12031	•	-	TW	-	-	-		WOVEN ELEC	CL22815	-	023	C	-	-	-	
	12299	•	-	TR	-	-	-			CL2806	-	024	C	-	-	-	
	425-1680-030VW-1	-	013	C	-	-	-		THERMAX TIMES	CL2815	-	023	C	-	-	-	
	5M2022-003	-	204	TW	-	-	-			CL2843	-	025	C	-	-	-	
THERMATICS	710855-35	•	-	TR	-	-	-		THERMAX TIMES	E39829	-	022	C	-	-	-	
	72116620-2	-	022	C	-	-	-			P-806	-	016	C	-	-	-	
	7591822	•	-	TW	-	-	-		THERMAX TIMES	RG-G2	2	013	C	-	-	-	
	8712812 (A/FDWG)	47	201	TW	78	.125	.023			E79733	11	-	TW	-	-	-	
	E80083	-	•	C	-	-	-		THERMAX TIMES								
	M17/117-00001	60	305	TR	95	.189	.012										
	NEC725-2 (G)	53	-	C	-	-	-		THERMAX TIMES								
	RG6	41	020	C	-	-	-										
	RG62	-	•	C	-	-	-		THERMAX TIMES								
	TYPECL2P	-	007	C	-	-	-										
	68-1938TF (2)SXE	-	223	TW	68	.104	.019		THERMAX TIMES								
	2245	•	•	TR	-	-	-										
	2260	•	•	C	-	-	-		THERMAX TIMES								
	2444BL	10	-	TW	-	-	-										
	68999	-	003	C	-	-	-		THERMAX TIMES								
	8712812	47	201	TW	-	-	-										
	AA-2325	-	•	TR	-	-	-		THERMAX TIMES								
	AA-2381	32	-	TR	-	-	-										
	AA-2511	2A	-	C	75	.220	.020		THERMAX TIMES								
	AA-2992	•	-	C	-	-	-										
	AA-3096	34	-	C	50	.242	.050		THERMAX TIMES								
	AA-4479	•	-	C	-	-	-										
	AA-4668	•	•	C	-	-	-		THERMAX TIMES								
	AA-4888	•	-	TR	-	-	-										
THERMAX TIMES	BL782	9	213	TW	78	.245	.039		THERMAX TIMES								
	BL784	10	-	TW	78	.420	.067										
	BL982	9	215	TW	98	.245	.032		THERMAX TIMES								
	BL984	10	-	TW	98	.420	.053										
	BL1242	9	216	TW	124	.245	.022		THERMAX TIMES								
	BL1244	10	-	TW	124	.420	.038										
	M1-2040	•	•	C	-	-	-		THERMAX TIMES								
	RD-178	•	-	C	-	-	-										
	RG-108	•	-	TW	-	-	-		THERMAX TIMES								
	RG-180	•	-	TR	-	-	-										
	SF-142B	1	-	C	50	.185	.036	A	THERMAX TIMES								
	SF-214	6B	-	C	50	.425	.089										
	SF-214	6B	-	C	-	-	-		THERMAX TIMES								
	SF-304	•	-	C	-	-	-										
	SF-5394	•	-	TR	-	-	-		THERMAX TIMES								
	TRF-8	4A	-	TR	50	.500	.086										
	TRF-11	4A	-	TR	75	.500	.049		THERMAX TIMES								
	TRF-58	7	-	TR	50	.245	.038										
	TRF-59	3	-	TR	75	.325	.023		THERMAX TIMES								
	TRF-62	•	-	TR	-	-	-										
TROMPETER	QRC-78-1	39	-	Q	78	TBD	.022		TROMPETER								
	QRC-78-2	17	-	Q	78	.286	.040										
	QRC-78-3	38	-	Q	78	.325	.039										
	QRC-124-1	40	-	Q	124	TBD	.012										
	QRC-124-3	38	-	Q	124	.335	.022										
	TCC-50-2, RG58 TYPE	1	011	C	50	.195	.038	F									
	TCC-75-2, RG59 TYPE	2	013	C	75	.242	.031	G									
	TRC-50-1	32	-	TR	50	.156	.015										
	TRC-50-2	7	306	TR	50	.245	.037										
	TRC-50-4A	14A	-	TR	50	.495	.081										
	TRC-75-1	33	307	TR	75	.189	.012										
	TRC-75-2	7	-	TR	75	.245	.019										

Notes for Cable Table:

- Available - Special Order. Call Factory
- A Jacket Slits Required
- B Flooded Burial Type
- C Solid Center Conductor
- D 75 ohm N Connector Available - Special Order
- E Without Jacket
- F Green Jacket
- G Violet Jacket
- H Blue Jacket
- J Double Shield
- K Semi-rigid
- L Ethernet
- M Replaces Trompeter TWAC-78-1F1
- N See IBM 4885584
- O All Values Nominal
- P Plenum Cable
- R See Belden Cable No. 89269
- S Quadrex for Twinax Applications
- T CONFORMABLE
- U MIL-C-17D/Strand 7X32
- X Under Evaluation - Call Factory

GENERAL SPECIFICATIONS

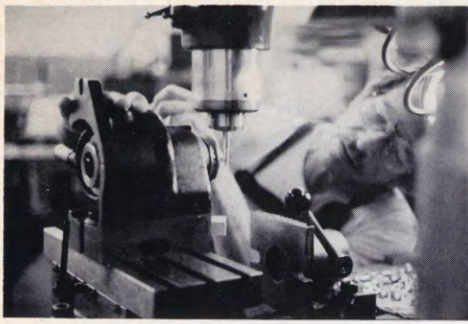
Performance, Material, Plating Specifications

GENERAL PRODUCT PERFORMANCE SPECIFICATIONS:

	Connectors					Patching		
	BNC	TNC	70 Series	150 Series	450 Series	WE Std.	WE Min.	RCA Std.
Frequency Range	0-4GHz	0-11GHz	0-500MHz	0-500MHz	0-2MHz	0-1GHz	0-1GHz	N/A
VSWR	1.30 Max.	1.30 Max	Not Rated	Not Rated	Not Rated	1.04 @ 75MHz 1.12 @ 100MHz 1.10 @ 500MHz	1.06 Max.	1.05 @ 50MHz 1.09 @ 100MHz 1.33 @ 500MHz
Voltage Rating	500 VRMS at Sea Level	500 VRMS at Sea Level	400 VRMS at Sea Level	250 VRMS at Sea Level	150 VRMS at Sea Level	500 VRMS at Sea Level	250 VRMS at Sea Level	500 VRMS at Sea Level
	125 VRMS at 70,000 ft.	125 VRMS at 70,000 ft.	100 VRMS at 70,000 ft.	62.5 VRMS at 70,000 ft.	Not Rated			
Temperature Range °C	-65° to 165°	-65° to 165°	-65° to 165°	-65° to 165°	-65° to 165°	-65° to 165°	-65° to 165°	-65° to 165°

MATERIALS AND SPECIFICATIONS, FINISH SPECIFICATIONS: TFS-1

Material	Alloy or Type	FED/MIL Spec.	Usage	TFS-1A: .000100-.000300 max. thk. Bright Nickel per QQ-N-290, Class 1, Form SB (over) .000080-.000150 thk Bright Copper per MIL-C-14550, Class 5 (over) .000500 max Electroless Nickel per MIL-C-26074A, Class 1 (on aluminum only)
ABS	Moldings Type 2	MIL-STD-1803 L-P-1883B*	Looping plug handles	
Acetal	Dupont Delrin	L-P-392	Insulator, cases	TFS-1B: .000020-.000030 thk Bright Gold ³ per MIL-G-45204, Type 11, Grade C, Class 1 (over) .000050-.000180 thk Bright Nickel ² per QQ-N-290, Class 2 ² (over) .000080-.000150 thk Bright Copper ³ per MIL-C-14550 ²
Aluminum	2024-T 351	QQ-A255/6	Backbars, cases	
	6061-T6	QQ-A200/8	Stiffener bars	
	6061-T6	QQ-A250/11	Patch panels	
	6061-T6511	QQ-A200/8	Backbars, cases	TFS-1D: .000100-.000120 thk Electroless Nickel per MIL-C-20674A, Class 1 (over) .000080-.000150 thk Bright Copper per MIL-C-14550, Class 5
Beryllium Copper	172	ATSM-B194	Contact & Crescent springs	
	173	ASTM-B196 & 197	Contact sockets, fingersprings	TFS-E: .000200-.000300 thk Bright Electro Tin per MIL-T-10727, Type 1 and solder test per Para. 4.6.3.1
Brass	260	QQ-B-613	Ground lugs	
	360	QQ-B-626	Connectors bodies, coupling sleeves, clamp nuts, hex mtg. nuts, ctr. contact pins, cases.	TFS-1H: .000200-.000300 thk Cadmium plate per QQ-P-416, Type II, Class 3
Fluorinated Ethylene Propylene	(FEP)	L-P-410A	Insulators	
Nylon	6/6	L-P-410A	Insulating bushings	TFS-1M ⁴ : .000200-.000300 thk Silver per QQ-S-385, Type II (Semi-bright) or III (Bright), Grade A (Chromate post treatment) (over) .000080-.000150 thk Bright Copper per MIL-C-14550 ⁴
Perfluoroalkoxy	(PFA)	ASTM-D3307	Cable jackets	
Phenolic	XXX	L-P-523 PBE	Patch panels, backbars	TFS-1N ⁵ : .000300-.000500 thk Cadmium plate per QQ-P-416, Class 2, Type II, Olive Drab (over) .000500-.000550 thk Electroless Nickel plate per MIL-C-28074, Class 1, Grade B
Phosphor Bronze	644	QQ-B-7	Contact springs, lockwashers	
Polytetrafluoro- ethylene	(PTFE)	ASTM- D1457-83	Dielectrics, insulators	TFS-1T ⁵ : .000050-.00010 Bright Tin per MIL-T-10727, Type I (over) .000150-.000200 Sulfamate Nickel per MIL-P-27418 (over) .00010-.00015 Copper per MIL-C-14550, Class 4
Solder	Sn60, 62, or 63	QQ-S-571		
Steel	C1010-1018	QQ-S-636	MPN cases	TFS-1U ⁵ : .0002-.0003 thk Sulfamate Nickel per MIL-P-27418 (over) .000080-.000150 thk Copper per MIL-C-14550, Class 4
	Music Wire	QQ-W-470	Tension springs	
Corrosion Resistant Steel	303	QQ-S-763	Connector bodies, coupling sleeves, hex mtg. nuts	TFS-1V ³ : .000200-.000300 thk Silver per QQ-S-385, Type I (Matte), Grade A (over) .000080-.000150 thk Bright Copper per MIL-C-14550 ⁶
	302	QQ-S-766	Designation strips	
	301	ASTM 484, AS82		2. All connector center contacts .000050 - .000070 thk Bright Gold, Class 1, Grade C, Type II 3. Thickness in accordance with MIL-G-452048, Para 6.3 "Strikes and Underplating" 4. Per MIL-C-39012C, Amendment 1, Para. 1.2.3. 5. Meets MIL-STD-1344 "500-hour Salt Spray" requirements
Thermo-plastic Polyester	Glass Filled	MIL-M-24519	Heat resistant molded insulators	
Vinyl	Clear Rigid Self ext.	L-P-535	Designation strip window	
	Opaque Rigid Self ext.	L-P-535	Designation strip mating strip	
Zinc	Eastern Alloy #7	QQ-Z-363	Selected non-functional parts	



Electronic Systems Wiring and Cable

After buying the most expensive "end" equipment, many systems engineers have difficulty in determining the best methods of cabling and interconnecting for the routing of signals with minimal loss, degradation and noise pickup. Simple solutions such as selecting the correct cable, eliminating common mode grounds or physically separating long runs of parallel cables will help make the difference between a good or bad system. It must be emphasized that these good practices must be implemented at the time of initial design and are almost impossible to implement after the system is built. This "interface" engineering will be discussed in following sections titled "Signal Degradation" and "Noise."

The systems engineer should study his system parameters and noise environment before selecting his cabling and connector components. Consideration must be given to:

- Signal frequencies (audio, video, IF or RF)
- Voltage and power levels
- Tolerable losses and degradation
- Reflected signals due to discontinuities
- Noise from direct contact common mode and ground loop returns, or radiated stray magnetic and capacitive fields.

Circuit wiring and cabling are susceptible to the pickup of noise. All low voltage signal and data wiring should be shielded irrespective of the frequency to be transmitted. Coax cable (primarily designed to carry RF) is excellent for digital data transmission. It is relatively inexpensive (RG-58, RG-122, etc.) and many complete series of coax connectors are readily available. High speed and broadband digital data must use RF coax transmission cable since the fast rise time narrow pulse has harmonics reaching into the RF region. For higher frequencies, coax cable must be used for point to point wiring since it has

the transmission characteristics, flexibility and economy necessary for most systems.

Impedance Standards of Coax Cables

The most efficient impedance to use when transmitting a signal (considering only the voltages, currents and powers to be transmitted) is 75 ohm. The **telephone industry**, followed by the **TV industry**, uses 75 ohm almost exclusively for the transmission of **video**, **baseband** and **IF frequencies**. The **military services** were faced with a differing need for low radiation angle **omnidirectional antennas** during the period 1920 through 1940 for broadcasting ship to ship, airport tower to low flying aircraft, and base station to ground troops. The only antenna that would fill that need was the **vertical ground plane antenna** (in its many forms) with transmissions at 50 ohm. The military standardized on 50-ohm impedance and spent vast sums of money developing cables and connectors for all of their coax systems. The Armed Services Electro Standard Agency (ASESA—at one time a military agency) designed all military coax components and assigned the connector UG and cable RG designations. The agency has since been replaced with the latest government/industry committees and the current general connector standard MIL-C-39012 (primarily for 50 ohm usage). The 93-ohm cable was developed to address the need for a **low-capacitance instrumentation** coax cable. By removing some of the coax dielectric and substituting air in the RG-59 cable, the distributed capacitance was lowered, thereby creating a lower voltage loss transmission medium (RG-62 cable).

More sophisticated cables and connectors of twinax, triax and quadax are now available. These newer components improve external noise rejection and containment of classified signals.

Signal Degradation

Signal degradation in any transmission medium usually consists of voltage amplitude reductions, wave shape changes, phase or delay changes, or power losses where power is transmitted. In most systems the interconnecting cable is the longest transmission path and its selection, manufacture, testing and installation should be carefully considered. **Cable should not be randomly selected and installed.** When selecting cable from specifications, always consider the length of the cable run, heat exposure, frequency and power to be transmitted vs. the acceptable losses inherent in the cable, the external noise fields and frequencies to be anticipated or encountered. Also consider the availability of connectors to terminate the cable. Too small a cable will always be cause for excessive losses. Fast rise time digital pulses will have the leading edge distorted due to the high resistance "skin" effect of small coax cables. When selecting a cable for a long run, observe the insertion loss to assure that your signal gets to its destination without too much loss. **When in doubt select a larger cable!** Incomplete copper coverage in the outer braid over the dielectric will cause transmission line losses and affect the cable's susceptibility to signal leakage or noise pickup. A copper braid coverage of 80% should be the minimum with 90% being preferred. Skimping on the quality of the copper braid will affect the cable's loop resistance and its "line" and "transfer" impedance. As a good rule of thumb, if the dielectric is visible through the braid (without bending the cable) then the cable should not be used.

Unseen manufacturing faults produce signal path impedance changes or discontinuities which **can only be detected by "frequency sweeping"** the cable. TV broadcasters have encountered as high as 60 dB losses in short runs due to periodicity and other manufacturing faults that are only detectable by swept frequency testing techniques. RG-59, RG-62, and other coax cables use copperweld wire for the center conductor. Copperweld is a high resistance steel wire with a copper cladding on the outside and was originally intended to give strength to TV cables when suspended from poles or pulled through ducts. This steel wire will increase the cable attenuation on a long run (particularly at the lower frequencies) due to the high resistance of the copper clad steel. RG-59 and RG-62 have approximately 44 ohms per 1000 loop feet as compared to 17 ohms when using pure copper for the same size center conductor. It is also difficult to effectively crimp a center contact pin on the hard steel copperweld wire. Many cable defects are not readily visible and may not show up without proper testing. **The reputation of the manufacturer and the type, quantity and quality of material** used is more important than cost savings when selecting

coax cable. Be careful that cable does not support heavy equipment or is subject to prolonged exposure to heat in system installations. To avoid cross talk do not tightly "bundle" cables. Do not bend cable beyond the manufacturer's recommended "radius of bend" in order to avoid producing cable discontinuities. Try to space separate high signal level or power circuits from low signal level cables when routing cables.

Signal cables are usually manufactured using polyethylene which is adequate for normal use. Teflon™ dielectric and sheathed cables should be used where high heat or chemical action will attack poly cables (such as in aircraft or industrial plants). The National Fire Underwriters now requires non-fire supporting cable to be used for all open wiring in public buildings (**plenum wiring**). Fire insurance rates can be greatly reduced in computer, nuclear accelerator and other large installations if TFE or FEP cables are used.

All transmission cable manufacturers should provide the electronic characteristics of their cables (including power handling and attenuation per foot versus frequency) to aid the system design engineer in doing a proper job. For instance, RG-58C has the following characteristics if built to military specifications:

Attenuation in dB per 100 foot length (Ambient temperature 100° F in freespace at sea level)

Frequency MHz	1	10	50	100	200	400	1000	3000	5000	10000
Attenuancy 100°	44	1.4	3.3	4.8	7.4	12	24	54	83	10
Power (Watts)	3000	1000	450	300	200	135	90	40	20	

Note how quickly the cable becomes unusable at the higher frequencies. Lowering the dielectric constant of the dielectric with Teflon™ or foamed Teflon™ and silver plating the inner and outer conductors to increase the skin effect conductivity will greatly improve the high frequency usage. The **increase in performance justifies the additional cost.** Keep in mind that for a 10 dB loss, only 3/10ths of the transmitted voltage will show up at the receiving end, and only 1/10th of the generated power will be available (assuming a reasonably good impedance match). If the operating temperature is higher than the rated temperature or if the cable is used at high altitudes, the attenuation and power handling capacity should be derated.

Low-priced cable should be carefully considered. Any reduction in the amount of copper in the conductors or in the quality of materials used throughout will affect performance. Many manufacturers provide better performance in their smaller cables by using materials better than minimum Mil Specs require. Cable performance will also degrade with time and can be adversely affected by the environment where it is installed (sun, ozone, salt, sulphur products, etc.).

A cable's shielding effectiveness versus the signal frequency to be transmitted should also be considered where noise pickup can be a problem. It is usually financially and physically impossible to undo any damage or replace cables once they are installed and terminated.

All RG-59 cables are not the same. **By adding the word "Type" a manufacturer may bypass minimum spec requirements** to reduce pricing. Some manufacturers build a **"better than Mil Spec"** cable and supply a superior product. They also **must use the word "Type"** since they **exceed** or **deviate** enough from the electrical and mechanical specifications. This also applies to connectors. Be cautious of "low bid" surplus dealers, distributors, or packaging houses. Inventoried cable may deteriorate with time. The design engineer and installation technician must be aware of the many hidden and unknown cable properties that may be detrimental to the system's performance. **Buyers accepting low bids may burden engineers and technicians with future problems due to hidden deficiencies.**

Coax Cable Connectors

Any connector must be able to interconnect with very low d.c. series resistance (less than 10 milliohms). The impedance of a connector is usually of no consequence below approximately 300 MHz since the connector does not contribute to circuit performance until its length approaches 1/20th of a wavelength. 50 ohm connectors can be attached to 75 ohm **video cables** with little detrimental effect. **However, the effect of a connector on a signal is cumulative.** Coax connectors should be impedance matched to the system impedance for frequencies above 300 MHz.

Very low level signals (-100 to -130 dBm) are encountered in certain applications (such as **satellite communications**). The generation of **intermodulation products** and non-linear distortion caused by the presence of ferro-magnetic material in the conductor has become a more prominent factor in the selection of cables and connectors. Ferro-magnetic materials, such as iron, stainless steel, cobalt and nickel, are commonly encountered in RF conductors. They are encountered in the form of copper clad steel cables and wires, and in environmental protective platings containing nickel. Even minute amounts of these materials can generate noise levels capable of masking or obliterating low-level signals.

Connector base materials should be plated with bright copper for surface finish and conductivity, followed by a low-porosity, pulse-plated gold finish plating for environmental protection and minimum contact resistance. The use of a nickel understrike is to be avoided and is not necessary when the gold is deposited by proper pulse-plating techniques. SMA (and smaller connectors) using stainless steel as the base material, and coax cable using any copper clad wire in either the inner or outer conductors should not be used for this application. **Heat treated beryllium-**

copper should be used for critical contact springs to maintain contact resilience. Many manufacturers use ordinary brass which soon loses its contact pressure and the connector becomes noisy or fails.

Unfortunately, military specifications governing the manufacture of connectors and related equipment do not recognize the pitfalls mentioned above. Lax specifications and "low-bidder" procurement policies will frequently place inferior components in critical applications. The military **"Qualified Product List" (QPL) is only a tabulation of products and manufacturers certified to meet the minimum specification standards.** Manufacturers are relied upon to police their own products. Under "low bid" pressure, QPL listed products below the quality necessary to do an adequate job may slip by. There have been instances of junk or counterfeit parts being supplied to the government under the guise of "low bid."

There is no provision that will insure the quality of products. The systems engineer can no longer afford to take cables and connectors for granted. He must be aware of cable characteristics such as attenuation, phase displacement, and transfer impedance. The systems engineer must also understand the inherent characteristics of the many connector families available and the strengths and weaknesses of individual manufacturers' connector designs. He must be willing to expend the time and effort to specify the quality component his system demands.

The many types and series of coax connectors presently available can cause confusion for users. Many of the lesser known series were designed to address specific problems or were developed by commercial companies for their own proprietary product line. The connector series listed below have gained universal acceptance due to their simplicity and performance. They are produced and stocked by the majority of coax connector manufacturers.

Nominal Cable Size O.D.	Connector Size	Quick Disconnect	Threaded
.060 to .425	Standard	C	N
.060 to .425	Miniature	BNC	TNC
.060 to .225	Subminiature	TPS	TCM

Much can be written to discuss the advantages of one series of connectors over another. Selection is normally based on cost or performance depending upon the system parameters required.

Connector Attachment: Crimping or Soldering

Crimping is normally used where the speed of attachment is important or where it is virtually impossible to solder due to lack of power (as on the top of a telephone pole or in a cable vault). A special crimp tool quickly and simply installs the connector to the cable. Repair requires a new connector for replacement. Soldering, on the other hand, does not require

any special tool. A soldered connection will not corrode provided adequate heat is correctly applied to avoid a "cold solder joint." Some soldered coax connectors may be used over without special tools or replacement parts. This is advantageous on shipboard or in field locations where replacement parts or tools are not always available.

Noise

Electrical noise is by definition, any unwanted interfering voltage, developed within or externally in a system, which reduces the performance of that system. "Noise" has always been a problem and in the past was usually reduced by brute-force filtering which reduced or stopped "noise" after it had entered the system. This method was quite expensive, but reasonably effective since signal information voltages were low in frequency and systems were few and not too large or complex.

Present day **communication** and **data systems** are continually becoming larger, more numerous and use higher information rates and frequencies in an atmosphere of expanded electrical and electronic equipment usage. The net result is ever increasing levels of interference and noise which creates an electronic traffic jam of major proportions. This applies equally to **low level analog** and **digital pulse systems**. Filtering is practically useless (or in some cases, completely unusable) since it produces excessive deterioration of the desired pulse waveforms or inaccuracies and distortion of analog signal voltages. Noise reduction is best accomplished by simply stopping "noise" before it enters the system.

The following describes how external noise is introduced into systems by the equipment interconnecting wiring, and the improvements that can be realized by installing noise-rejecting type cables and applying good equipment isolation and grounding techniques.

Most electronic equipment do not produce random noise and usually perform the singular task they were designed to do.

Unwanted noise is picked up by the interconnecting wiring through the direct contact action of **ground loops** and **common mode returns**, or by **inductive** and **capacitive pickup** of nearby radiated fields. A desired signal in one circuit can be noise to another. Interference can be produced by local circuits within the system or from equipment completely removed and external to the system. Conversely, cables can radiate the signal they are carrying into adjacent circuits (**cross talk**) generating interference to other data systems or causing security compromises in classified military communications. This problem can be further compounded by **poor cable-to-equipment impedance matching** which produces signal reflections

and high standing wave ratios. Poorly selected and installed cabling can act as both transmitting and receiving antenna or as undesired primary and secondary windings of coupling transformers, placing interference into the system.

Systems are often designed, fabricated, and installed using the simplest multiwire cable or grounded coax between equipment, racks, and buildings, not realizing that they will probably encounter and pick up all manner of interference. Nearby electrical equipment such as high power radar, broadcast stations, power distribution mains, fluorescent lighting, arcing motors, teletype and communications circuits are but a few of the noise makers. The lower the system signal voltage level, the greater is the susceptibility to this outside interference.

A system design might work fine on paper or when initially assembled and tested. But it may not perform as anticipated when installed at its final location on ship or shore. You may realize that the completed system has picked up much noise and hum, or is itself radiating interference so heavily that the equipment is unusable. Costly additional effort, parts, and time expended to locate and attempt to eliminate the causes of the noise pickup may meet with little success. **Cable-to-equipment interface engineering should be applied at the start of system planning and design** to avoid this unnecessary waste. This applies to all systems for low or high frequency signals, for applications in **TV, telemetry, timing, ordnance, environment testing, computer, telephone, test instrumentation, or normal communications**. Each system must be considered individually, since the signal frequencies and amplitudes within the system and the anticipated external interference will dictate what type of cabling and connection techniques are to be used.

Following are typical examples of good cable engineering.

Low-level environmental systems predominantly use "guarded" balanced and shielded lines to transmit the calibrated transducer test voltage to an isolated charge amplifier.

TV video is distributed over 124-ohm "shielded twisted pair" or twinax (instead of coax) in high noise areas to obtain low frequency magnetic field cross talk and hum cancellation.

Digital applications in the **computer** and **instrumentation** fields require good high-frequency design engineering when transmitting nano-second rise time pulses. A 10-nano-second rise time pulse is equivalent to 100 megahertz RF. Good coax cable techniques helps to avoid pulse reflection, false noise triggering or data inaccuracy.

Special care is required to keep noise from entering **information systems** (particularly **aircraft**). **Low level communication circuits** and cabling should be space separated and have effective shielding from

adjacent parallel power circuits to avoid induced hum.

Unprotected circuits (such as **ordnance** and **timing**) can receive false pulsing if exposed to external radiated RF interfering fields.

High megawatt pulsed radar will introduce both its carrier and PRF into nearby sensitive low-level unprotected cable runs which act as receiving antennas.

Sometimes the transmitted pulses have amplitudes of hundreds of thousands of volts (as used in **atomic energy testing** or **linear accelerators**) thereby producing large magnetic and capacitive interference fields. These play havoc with local cable connected instrumentation and electronic equipment.

In the case of **nuclear attack**, a tremendous electrical field transmitted for many miles from ground zero will induce extremely high voltages in all unguarded and unprotected cable and equipment. It is estimated that a vertical electrical field intensity of 50K volts per meter will be present 62.5 miles from a 10-megaton near-ground explosion. Larger bombs exploded at higher altitudes will cause correspondingly greater damage, including the disruption of the national power grid. This may burnout many sensitive components. Solid-state transistors and diodes, integrated circuits, front end RF coils, sensitive relays and reeds are typical of the sophisticated elements used today for both military and commercial systems that may fail even though far removed from the fireball area.

The lack of money, time and qualified personnel will not permit complicated and costly post-completion interference cleanup of poorly engineered systems. The use of good coax, twinax, triax, or double shielded balanced line (quadrax) in isolated or guarded circuitry, will do much to suppress outgoing EMI and RFI, reduce incoming noise pickup, and help protect both your system and the adjacent system from mutual interference. Careful cable to equipment interface planning must be exercised to produce workable compatible systems. Design engineers are not free to treat cable installation as casually as they may have in the past.

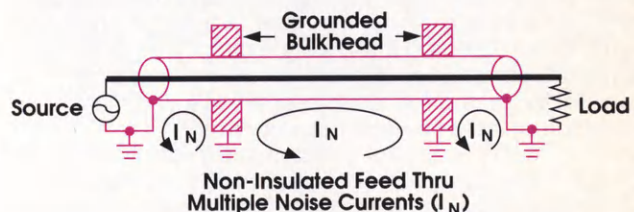
Coax Cable

Shielded cable should be used to protect against magnetic and capacitive stray fields in all cases of potential interference (low or high frequency). Grounded coax cable is excellent for use from 20 KHz to 5 GHz for most systems. But even coax, if subjected to very strong interference, will not completely protect the desired signal. Coax cable is a two conductor cable. The outer conductor of a coax cable is not a true shield in that it is also the signal return. A true shield is insulated from the signal carrying conductors and protects the enclosed coaxial conductors. However, the outer conductor of a coax cable is an electrostatic shield and thus protects against capacitive interference.

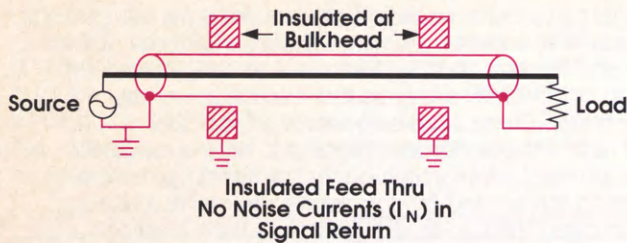
When two conductors at different voltages are placed near one another, a charge difference exists between them. Since a charge difference exists between the two conductors, a capacitive effect also exists between them. Such capacitive effects can give rise to interference signals in both conductors. To prevent wires which carry low-level signals from being influenced by capacitive effects, you need to surround the low-level signal wire with an electrostatic shield. This type of shielding is effective because external electric fields cannot penetrate an enclosure surrounded by an electrical conductor. Coax cable should be used when low-level signal wire is likely to come in contact with another signal carrying wire. This is especially true when the voltage difference between the signal carrying wire and the source of interference is large. Any external voltage injected in this braid will act as noise to the desired signal in the coax. The sophistication of cable and equipment isolation techniques used is dependent upon the frequency of the interfering noise and how it enters the cable system. Any additional measures taken to reduce incoming noise will also reduce outgoing radiation and cross talk.

Ground Loops and Common Mode Returns

Coax cable consists of an inner and an outer conductor insulated from each other. Each conductor carries a desired signal current (source to load or return). The outer conductor is usually grounded at the source, load, bulkheads and other intermediate points. "Ground loop" or "common mode" currents caused by potential differences of external noise sources are also simultaneously carried on the outer conductors and noise is introduced into the system, greatly reducing the "signal-to-noise ratio."

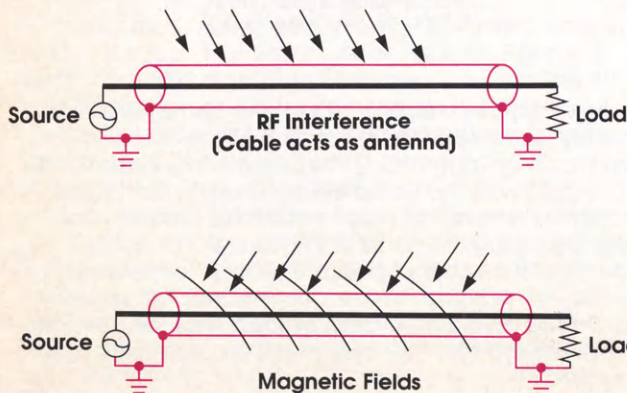


Low frequency signals (20 KHz to 6 MHz) are particularly susceptible to both ground loop and common mode interference. Coax cable is recommended in this case with the complete coax chain having a **minimum number of outer conductor ground contacts**. Reducing the number of ground connections reduces the number of possible ground loops. Major equipment, relays, switches, connectors, patch panels, etc., should be **isolated from ground** with the ultimate design having only one system ground connection at the source.



Radiated Fields

Where strong radiated noise fields exist (such as **high-powered radar, broadcast stations, power lines, fluorescent lighting, office and industrial machinery**, multiple cable runs, etc.) the cable conductors act as receiving antennas or secondary windings of transformers and pick up externally generated noise. At higher frequencies, a part of the energy associated with the fluctuating current of charge in a conductor is radiated away from the conductor in the form of electromagnetic radiation. Electromagnetic shields make use of the fact that the electromagnetic radiation must simultaneously contain electric and magnetic fields in order to propagate independently through space. Therefore, a shield designed to eliminate electrostatic fields can be used to neutralize the electric field component of electromagnetic wave. Consequently, the outer conductor of a coax cable connected to a ground through a low-impedance path will be an effective shield against electromagnetic interference. In high level RF environments, it is desirable to minimize the RF potentials existing between points on a coax shield. The shield should be grounded at both ends of the cable and at intermediate points along the cable. This multi-point grounding on the shield maintains the RF shielding effectiveness of the cable. If coax cable is used in a radiated interference area, the outer conductor should be grounded as often as possible and wherever feasible in order to remove the radiated interference as soon as possible. If your application requires that you address both ground loops and radiated interference you may need to use either twinax or triax cable.



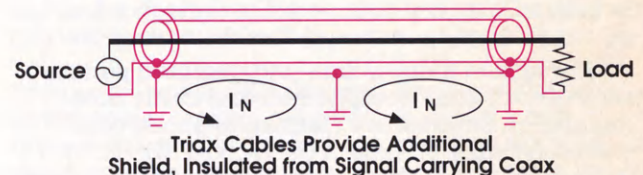
A particularly bad source of noise pickup is the induced currents encountered in large multiple cable installations ("cross talk").



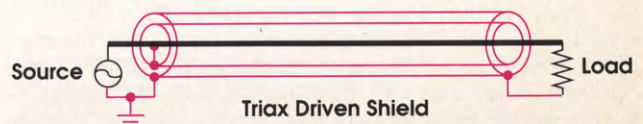
Two improved types of cables are used for additional protection against these radiated sources:

Triax Cable

Triax cable is coax cable with an additional outer copper braid (insulated from the signal carrying conductors) that acts as a true shield and protects the enclosed coax conductors. This braid or shield is grounded and passes both ground loop and capacitive field noise currents away from the signal carrying coax, thereby greatly improving the "signal to noise" ratio over standard coax cable.



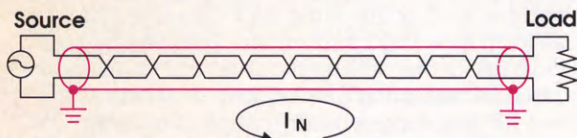
Triax cable is also used in "**Driven Shield**" applications where the inner conductor and first braid are driven in parallel at the transmitting end and work against the outer braid which is insulated above ground. **The inner braid is left floating at the receiving end, providing a "Faraday" shield between the inner and outer braid.** In this way the cable's distributed capacitance is greatly reduced, thereby reducing cable losses and loading. This application is most effective in **high frequency transducer data systems** where the distributed capacity in coax cable limits the data accuracy. (Page 129, Reference 1.) Triax cable with only the two outer braids can be used as a low impedance transmission line (approximately 12 ohms) to carry high-current pulses to **low impedance laser lamps** or **exploding bridge wire (EBW) ordnance systems**. Triax cable and connectors completely insulated from the ground are available for these applications.



TwinaX Cable

TwinaX cable is a two-conductor twisted balanced wire line with a specific impedance and a shielding braid around both wires. The twisting of the two balanced-signal-carrying wires cancels any random induced noise voltage pickup, giving protection against any low frequency magnetic noise passing through the copper braid.

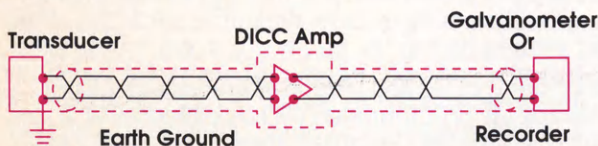
Trompeter's twinaX cable design also lowers cable losses by adding two (2) dielectric fillers under the braid which separates the braid away from the signal pair, thereby lowering the leakage capacitance to ground. Additionally, the coverage is improved to 90% by using more copper wire in the braid and weaving it tighter. Like triax cable, Trompeter's twinaX cable provides protection against ground loops and capacitive fields. TwinaX cable usefulness, however, is limited to approximately 15 MHz since it has rather high transmission losses above this frequency. The 124 ohm twinaX cable is used extensively by the Bell Telephone System for **video transmission**. TwinaX cable and concentric connectors are available for **low frequency, digital** and **video distribution systems**.



TwinaX Cable Provides A Shield, Insulated from The Twisted Pair Signal Carrying Conductors

TwinaX Guarded Cable Hookup

In **instrumentation systems**, where **thermo-couple** and other transducer information must be remotely recorded, additional **common mode rejection** of noise can be obtained by using twinaX with only one ground contact located at the transducer. Insulated concentric twinaX connectors are available for this type of application.

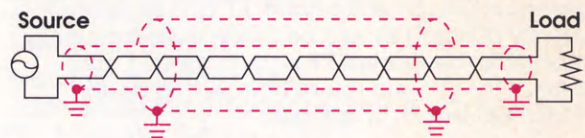


Guarded TwinaX Cable System (one ground)

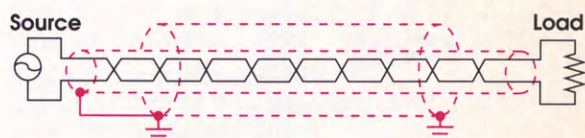
Quadrax Guarded Circuit

Quadrax cable is twinaX cable with two separate insulated braids connected to "system" ground and "earth" ground, respectively, and is the ultimate in flexible cable for **protected** and **guarded**

circuits. Quadrax cable can also be used to provide additional noise and EMI suppression by connecting both shielding braids to a single earth ground if a separate equipment ground is not available. The inner braid (left floating above ground at all other locations) acts as a Faraday shield to provide additional circuit isolation. Coax cable with two extra insulated braids can be used in similar engineering designs for unbalanced systems.



Quadrax Guarded Circuit (#1)



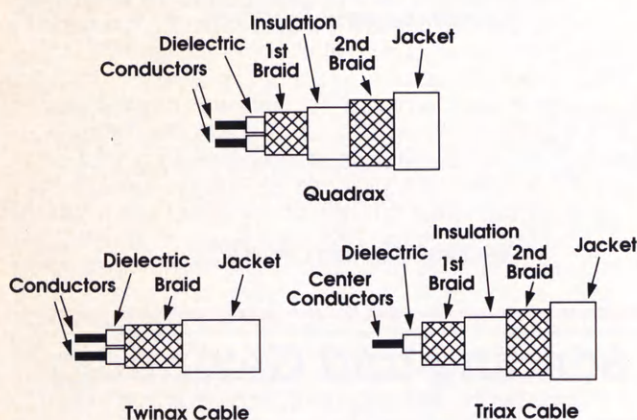
Quadrax Guarded Circuit (#2)

Bonding and Grounding

Good bonding and grounding are absolutely essential if noise pickup reduction is to be accomplished. Equipment isolation, cabling, bonding and grounding are all part of the noise pickup and EMI/RFI problem. The method of equipment interconnecting and grounding is a function of the signal frequency (LF, video or RF), and no one simple answer can be provided. The following common conditions require detailed consideration:

- **"Earth" grounds:** require extensive grids, ground rods, and chemical preparation to obtain an extremely low resistance and impedance system ground return.
- **Ground isolation:** In many instances in low-frequency data systems where equipment is widely separated, equipment ground "planes" should be isolated from earth grounds to avoid "noisy" ground loops caused by power and other equipment in the immediate area.
- **Parallel cabling:** Space isolate cabling of similar functions (i.e., RF from RF, video from video, and cables carrying vastly different voltage levels) so that they do not have mutual capacitive or inductive coupling.
- **Termination impedance:** Properly terminate all pulse and high-frequency cables in their characteristic impedance so that the cable reactive components are cancelled out and the voltage standing waves are reduced to a minimum.

- **Cable selection:** The higher the frequency, the faster the pulse rise time, or the longer the cable run; the bigger the cable required to reduce dielectric losses and lessen the distortion of pulse shapes.
- **Grounding location:** If "system" ground and "earth" ground must be connected, it should be done at minimal locations (preferably one) using extremely low-impedance bonding paths and materials. On the other hand, RF and high frequency bonding should be made quite frequently to provide the shortest RF path to ground and prevent the ground return from acting as an additional length of antenna.



Systems Usage

Most engineers are quite familiar with the long-time use of 75 ohm coax cable in IF and **baseband telephone transmission** installations and its universal use for **broadcast** and **cable TV**. Coax and twinax cables are being used for **local dedicated installations** with the rapid growth of **commercial computer data distribution**. The newer non-dedicated commercial coax bus systems (**Ethernet** and **Z Net**) tie many terminals to one high bit-rate trunk cable. **Military aircraft systems** are now being designed calling for 78 ohm twinax data bus distribution for main functions of **guidance** and **control, navigation, communications**, etc., per MIL-STD-1553B. (TRS and TRB series connectors.) MIL-STD-1397 specifies 50 ohm triax in **naval ship digital data bus** applications which use the TRB and TRC series connectors listed in MIL-C-49142.

Armor covering should be applied over delicate cables when greater **mechanical protection** is required against vandalism, sabotage, rough handling, rodents, fire or other high risk conditions. Coax cable VSWR quickly deteriorates when the cable is repeatedly stepped on or bent beyond its tolerable radius of bend. **Mines, prisons, open field use, sewers**

and **engine compartments** are just a few areas where armoring should be considered.

Interference is becoming a major problem with the proliferation of **digital computer** installations, **data transmissions** systems, and **local area networks** (both baseband and broadband). The main interference encountered is caused by the high harmonic content of the digital pulses that fall in the RF region and radiate into free space or cross talk to other victim cables. **FCC Docket 20780** mandates the reduction of this radiation for **personal and business computers**. This can be accomplished in part by shunting the unnecessary high harmonics to ground at the equipment locations before the signal gets into the transmission cable.

Trompeter Electronics has developed coax connectors that are isolated above ground but have a 6 nanofarad bypass capacitor, shunting the outer braid to ground for high harmonic attenuation. In many instances, interference will be so severe that twinax (balanced-shielded) or triax (shielded coax) cables will have to be used along with the proper connectors to provide good isolation, bonding and grounding.

As previously discussed, high bit-rate signals require high-frequency transmission cables (coax, twinax, triax and even quadraX) to minimize amplitude and frequency distortion and to prevent pick-up of noise from external interference. The design engineer must select the optimum cable and connectors for maximum reduction of interference due to radiated RF and magnetically coupled or direct contact ground loop noise. This can reduce the number of noise suppression filters and amplifiers required. A repeated word of caution is offered for those contemplating "digital" use. Low-voltage digital lines should not be placed in the near proximity of high-voltage and high current cables. Nor should a single multi-function connector be used due to the strong probability of cross-talk coupled interference. Physical separation of the cables is the first and best solution, with shielding and isolation above ground being the second consideration.

This paper is an edited version of an original paper written by Mr. Ed Trompeter. We have included it in our catalog to give the design engineer some insight into what may be done to produce noise-free systems without extensive re-work and debugging. However, it is our hope that **purchasing agents, material managers, technicians, salesmen** or anyone involved in the design, sales or installation of electronic systems wiring or cabling will also benefit from reading this paper. Copies of this paper may be made from this catalog and distributed for educational and training purposes without consent, but with credit given to Trompeter Electronics, Inc.

CHOICE of CABLE TYPE and INSTALLATION

- **Grounded Coax:** Can pass the high information rates but is subject to ground loops as well as magnetic and radiated noise pickup.
- **Underground Coax:** Can pass the information rates but is subject to magnetic and radiated noise pickup. Substantially lowers the ground loop interference.
- **Triax Cable:** Can pass the high information rates but is subject to magnetic noise pickup. Substantially lowers the ground loop interference and removes the radiated noise.
- **Twinax Cable:** Passes only medium information rates but hinders the pickup of magnetic interference due to the "twist" of the signal pair. (Equipment usually operated with balanced inputs and outputs.)
- **Quadrax Cable:** Passes only medium information rates and hinders the pickup of magnetic interference due to the "twist" of the signal pair. Also gives additional radiated noise protection and allows the inner braid to be used for d.c. control voltages in some applications. (Equipment usually operated with balanced inputs and outputs.)
- **Underground versions of Twinax and Triax:** Provide even more ground loop isolation.

building cable installations to reduce potential loss of life and property. The same applies to **military aircraft cables** which must also be able to withstand exposure to fuel and cleaning solvents. Connectors are available for these special cables.

For **building installations** some mandatory reading is available from the following organizations:

National Building Code

American Insurance Association
85 John Street
New York, NY 10038

Standard Building Code

Southern Building Code Congress International
900 Montclair Road
Birmingham, AL 35213

Uniform Building Code

International Conference of Building Officials
5360 South Workman Mill Road
Whittier, CA 90601

BOCA Basic Building Code

Building Officials & Code Administration Int.
17926 South Halstead Street
Homewood, IL 60430

National Electric Code

National Fire Protection Assoc.
Batterymarch Park
Quincy, MA 02169
(617) 770-3000

"UL" Publications

Underwriters Laboratories, Inc.

1285 Walt Whitman Road
Melville, NY 11747
(516) 271-6200

Underwriters Laboratories, Inc.

333 Pfingsten Road
Northbrook, IL 60062
(312) 272-8800

Underwriters Laboratories, Inc.

1655 Scott Boulevard
Santa Clarita, CA 91050
(408) 485-2400

Other organizations to contact:

International Association of Electrical Inspectors

National Electrical Contractors Association

The choice of materials to be used in these cables is of major importance. For **commercial installations in public buildings**, the National Electrical Code, Underwriters Lab and local ordinance requirements must be complied with. **Fire wicking cables** routed horizontally through fire walls and vertically floor-to-floor are required to be metal ducted (a very expensive and inflexible mode of construction). **Approved cables made of FEP** can be routed horizontally and vertically, without ducting, in air plenums with a great reduction in size and cost and with much **greater flexibility for future modifications**. Increasing insurance premiums will almost dictate that **flame retardant non-toxic materials** be used in all future public

IMPORTANT NOTE: All possible care has been taken in providing you with the information in this catalog. Statements and specifications are believed to be accurate but are **not guaranteed** and we are not responsible for any inaccuracies. Catalog data is provided for informational purposes only and should not be used to establish specification limits, nor should catalog data be used alone as the basis of design. **Contact the factory for exact specification and design limit prints when this information is critical.**

Trompeter Electronics is continuously improving its products to meet industry's increasingly demanding needs. We reserve the right to change or alter specifications or materials without notice, provided the function and performance of the component remains reasonably the same or is improved. All products are subject to alteration or to discontinuance without prior notice.

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NEW JERSEY, S	L & M Associates	1037-A2 Mill Creek Dr., Festerville, PA 19053	(215) 953-9808	(215) 953-9814
NEW MEXICO	Aztec Enterprises	150 Louisiana N.E., #B, Albuquerque, NM 87108	(505) 262-1688	(505) 266-1843
NEW YORK	L & M Associates	175 W. 12th St. #20E, New York, NY 10011	(212) 243-6155	
NEW YORK, N	TAE REP Inc.	67 Altair Dr., Getzville, NY 14068	(716) 688-5008	
NEW YORK, N	TAE REP Inc.	320 N. Washington, Rochester, NY 14625	(716) 586-8710	(716) 586-8719
NEW YORK, N	TAE REP Inc.	P.O. Box 247, Whitney Point, NY 13862	(607) 692-3705	(607) 692-3709
NEW YORK, NE	TAE REP Inc.	29 Valencia Ln., Clifton Park, NY 12065	(518) 371-3117	
NEW YORK, S	L & M Associates	37 Midland Ave., Elmwood Park, NJ 07407	(800) 722-0441	(201) 797-9504
NORTH CAROLINA	Currie, Peak & Frazier, Inc.	9830 Fairway Ridge Rd., Charlotte, NC 28226	(704) 846-1702	
NORTH CAROLINA	Currie, Peak & Frazier, Inc.	1214 Grove St., Greensboro, NC 27403	(919) 373-0380	(919) 273-6308
NORTH DAKOTA	Engineering Prod. Assoc., Inc.	7336 Ohms Lane, Minneapolis, MN 55439	(612) 835-9022	(612) 835-7347
OHIO	Geotronics, Inc.	3554 Brecksville Rd., Richfield, OH 44286	(216) 659-6100	(216) 659-3435
OHIO	Geotronics, Inc.	P.O. Box 26368, Trotwood, OH 45426	(513) 854-5939	(513) 837-0537
OKLAHOMA	ION Associates, Inc.	11101-E East 41st St., Tulsa, OK 74146	(918) 481-2199	
OREGON	Evergreen Marketing Group	4095 SW 144th St., Beaverton, OR 97005	(503) 643-8020	
PENNSYLVANIA, E	L & M Associates	1037-A2 Mill Creek Dr., Festerville, PA 19053	(215) 953-9808	(215) 953-9814
PENNSYLVANIA, W	Geotronics, Inc.	4361 Route 8, Allison Park, PA 15101	(412) 487-1770	(412) 487-1331
PUERTO RICO	Trompeter Electronics	31186 La Baya Dr., Westlake Village, CA 91362	(818) 707-2020	(818) 706-1040
RHODE ISLAND	Underwood Sales Corp.	694 Chelmsford St., Lowell, MA 01851	(508) 256-8191	(508) 454-0363
SOUTH CAROLINA	Currie, Peak & Frazier, Inc.	7335 Lake Ellenor Dr., Orlando, FL 32809-6219	(407) 855-0843	(407) 851-1464
SOUTH DAKOTA	Engineering Prod. Assoc., Inc.	7336 Ohms Lane, Minneapolis, MN 55439	(612) 835-9022	(612) 835-7347
TENNESSEE	Currie, Peak & Frazier, Inc.	2317 Starmount Cr., Huntsville, AL 35801-3817	(205) 536-1506	(205) 551-0558
TEXAS	ION Associates, Inc.	4412 Spicewood Springs Rd. #1008, Austin, TX 78759	(512) 794-9007	(512) 794-9008
TEXAS	ION Associates, Inc.	1504 109th St., Grand Prairie, TX 75050	(214) 647-8225	(214) 641-9839
TEXAS	ION Associates, Inc.	14300 Cornerstone Vlg. Dr. #228, Houston, TX 77014	(713) 537-7717	(713) 537-5612
UTAH	Aztec Enterprises	1817 S. Main St., Salt Lake City, UT 84115	(801) 467-4675	(801) 487-7111
VERMONT	Underwood Sales Corp.	694 Chelmsford St., Lowell, MA 01851	(508) 256-8191	(508) 454-0363
VIRGINIA	Sel-Tronics, Inc.	9475 Lottsford Rd., Landover, MD 20785	(301) 341-2700	(301) 341-3601
WASHINGTON	Evergreen Marketing Group	19102 N. Creek Pkwy. #105, Bothell, WA 98011	(206) 485-8063	(206) 485-4888
WEST VIRGINIA	Geotronics, Inc.	4361 Route 8, Allison Park, PA 15101	(412) 487-1770	(412) 487-1331
WISCONSIN, E	Berndt Associates, Inc.	9431 W. Beloit Rd. #214, Milwaukee, WI 53227	(414) 545-8400	(414) 545-7087
WISCONSIN, W	Engineering Prod. Assoc., Inc.	7336 Ohms Lane, Minneapolis, MN 55439	(612) 835-9022	(612) 835-7347
WYOMING	Aztec Enterprises	9145 E. Kenyon Ave. #101, Denver, CO 80237	(303) 779-5285	(303) 779-5334

Trompeter... "We connect you with quality"!

Thank you for your interest in Trompeter Electronics' products. We're glad you took the time to request our new T18 catalog and hope it will prove to be a valuable resource for you.

We'd like to ask a small favor of you...

Would you please take a moment to fill out our survey card and drop it in the mail to us? It will help us to keep you informed through more effective advertising. Knowing which publications are most useful to you will also help us to keep up on vital issues which are important to you. Information on your application will help us to better understand your function and responsibilities.

You will also automatically be listed to receive our next catalog. Hopefully, this will all lead to better communication and products which are more responsive to your needs. Of course, answering all questions is optional but fully completed surveys will be entered into a quarterly drawing for a FREE Crimp Kit (\$135 value!).

Please keep me connected with quality.

To assist you I have filled out your survey. Please contact me if I win a FREE Crimp Kit and be sure to send me your next catalog!

Name _____

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☐ I have an immediate application need. Please have a sales engineer call me! T18

Phone: _____ Best time to call _____ AM ☐ PM ☐

☐ Specific application need: _____

☐ Literature Request Only: I do not have a copy of Trompeter's T18 catalog and I am requesting a personal copy.

☐ I have requirements for _____ additional catalogs for: (Please specify) _____

☐ Add me to your mailing list to receive your next catalog: _____

☐ Send me specific information on the following: _____

Name _____ Phone _____

My primary application is: ☐ Computer/Data ☐ Broadcast/Video ☐ Telecom ☐ Military

Other (Please specify) _____

My primary function is to: ☐ Recommend ☐ Specify ☐ Buy ☐ Use electronic components

Company Name _____

Address _____ MS/Dept _____

City _____ State _____ Zip _____

Trompeter Electronics, Inc.

Phone (818) 707-2020

Fax (818) 706-1040

Trompeter Customer Connection Survey

The three trade publications I read religiously are:

1. _____
2. _____
3. _____

I have seen your ads in trade publications ☐ Yes ☐ No

The number of different card pack advertisements

I receive each month is: _____

The number of card packs I actually read is: _____

I have responded to ☐ 0-5, ☐ 6-10, ☐ 10-25, ☐ 25+ card pack ads in the past year

I have responded to ☐ 0-5, ☐ 6-10, ☐ 10-25, ☐ 25+ magazine ads in the past year

A volume of EEM is available to me:

☐ Yes ☐ No I use it: ☐ Rarely, ☐ Often, ☐ Never

A volume of The Thomas Register is available to me:

☐ Yes ☐ No I use it: ☐ Rarely, ☐ Often, ☐ Never

My major motivation for requesting a Trompeter catalog is:

- ☐ I have used Trompeter products for _____ years.
- ☐ I have not used Trompeter products and responded to advertising for general literature.
- ☐ I have not used Trompeter products and responded to advertising for a specific application need.

Comments: _____

☐ I have an immediate application need. Please have a sales engineer call me! T18

Phone: _____ Best time to call: _____ AM ☐ PM ☐

Specific application need: _____

☐ Literature Request Only: I do not have a copy of Trompeter's T18 catalog and I am requesting a personal copy.

☐ I have requirements for _____ additional catalogs for: (Please specify) _____

☐ Add me to your mailing list to receive your next catalog.

☐ Send me specific information on the following: _____

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Company Name _____ MS/Dept _____

Address _____

City _____ State _____ Zip _____

Trompeter Electronics, Inc. Phone (818) 707-2020 Fax (818) 706-1040

Upon receiving Trompeter's catalog I found that it was:

- ☐ Useful as I had expected.
- ☐ Useful, but not what I expected.
- ☐ Not useful, but what I had expected.
- ☐ Not useful and not what I had expected.

Prior to receiving Trompeter's catalog I was:

- ☐ Familiar with Trompeter's name and products.
- ☐ Knew Trompeter's name but not its products.
- ☐ Did not know Trompeter or its products

My Dept.'s primary function is:

☐ Other (Please specify) _____

Management ☐

Purchasing ☐

Engineering ☐

Quality Control ☐

My primary job function is to:

Recommend ☐

Specify ☐

Buy ☐

Use ☐

I've used Trompeter products for:

Less than 1 year ☐

1-3 years ☐

☐ I have never used Trompeter products before

3-5 years ☐

5+ years ☐

My primary application is:

Computer/Data ☐

Broadcast/Video ☐

Telecom ☐

Military ☐

My company uses the following products:

- ☐ Coax cable ☐ Twinax/Triax Cable
- ☐ Coax patching ☐ Twinax/Triax patching
- ☐ Coax connectors ☐ Twinax/Triax connectors
- ☐ Cable Assemblies ☐ Custom Panels

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Trompeter Electronics Foreign Sales Representatives' Offices

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St. Laurent, PQ H4T 1A7
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PH: (800) 363-8855
PH: (514) 733-5344
FAX: (514) 733-7140

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Burlington, ON L7M 2L9
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FAX: (416) 332-1145

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Componetics, Ltd.
3540 Ashby Avenue
St. Laurent, PQ H4R 2C1
PH: (514) 331-9930
FAX: (514) 331-1498

CANADA

Branch Office
Componetics, Ltd.
210 Cochrane Dr. Unit #8
Markham, ON L3R 8E6
PH: (416) 479-7200
FAX: (416) 479-9609

CHILE

TASCO
Europa 1969
Santiago
PH: (562) 251-2288
FAX: (562) 251-2288

CENTRAL & S. AMERICA

Gendra Intl., Inc.
PO. Box 371067
Miami, FL 33137
PH: (305) 372-8845

COLUMBIA

INSTELEC LTDA
Transversal 93 No. 61-02 Int. 81
Bogota
PH: (571) 252-1421
FAX: (571) 224-3977

GERMANY

Technitron Systems Division
Charles-de-Gaulle-Strasse 4
D-8000 Munchen 83
PH: (49-89) 67-80-95
FAX: (49-89) 637-65-66

GREAT BRITAIN

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Redfields Park, Church Crookham
Fleet, Hampshire GU13 ORD
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FAX: (44-252) 851-471

GREAT BRITAIN

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Dean Technitron
Redfields Park, Church Crookham
Fleet, Hampshire GU13 ORD
PH: (44-252) 851-100
FAX: (44-252) 841-488

GREAT BRITAIN

Greenwood Electronics
6 Weighbridge Row, Cardiff Road
Reading, Berkshire RG1 8LX
PH: (44-734) 595-843
FAX: (44-734) 505-324

GREAT BRITAIN

Lee Engineering, Ltd.
3 Eversley Way, Sky Business Park
Egham, Surrey TW20 8RF
PH: (44-784) 711-66
FAX: (44-784) 711-60

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ACAL AURIEMA SA-
Technitron Systems
Z.A. des Marais, 1 Av Louison
Bobet
94120 Fontenay-Sous-Bois
PH: (33-1) 48-76-11-0
FAX: (33-1) 48-77-62-3

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DICO Intl., Inc.
Room 26, 7/F. Block B,
Proficient Ind. Centre
6 Wang Kwun Rd., Kowloon Bay
PH: (852) 799-9339
FAX: (852) 799-9182

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Post Box 11604
Bombay 400 021
PH: (91-22) 20-220
FAX: (91-22) 20-29-403

ISRAEL

Shaham Electronics
3 Taas St., P.O. Box 1824
Ramat-Gan 52521
PH: (972-3) 751-1187
FAX: (972-3) 751-5221

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20046 Biassono, Milan
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FAX: (39-02) 490280

ITALY

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FAX: (39-2) 82-45-050

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Akasaka 170
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FAX: (81-3) 479-1789

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Shintomi Bld. 7F
2-5-10 Shintomi
Chuo-Ku Tokyo
PH: (81-3) 3553-8061
FAX: (81-3) 3555-8064

KOREA

Woo Seung Intn'l, Inc.
Room 303, Woojeon Bldg. #1021-1
Daechi-Dong, Kangnam-Ku
Seoul
PH: (82-02) 567-0928
FAX: (82-02) 552-0979

MEXICO

Teknomerica S.A. de C.V.
Romulo O'Farrill Sr. #535
Col. Las Aguilas 01720
PH: (905) 680-4399
FAX: (905) 680-0984

NETHERLANDS

Technitron Systems B.V.
Zwarteweg 110
1431 wM Aalsmeer
PH: (31) 2977-22456
FAX: (31) 2977-40968

NEW ZEALAND

Connector Systems Ltd.
PO. Box 6300
Auckland
PH: (64-9) 774-945
FAX: (64-9) 391-882

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ACAL Technitron A/S
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FAX: (47) 529-1946

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Branch Office
ACAL Technitron A/S
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3501 Honefoss
PH: (47-67) 33-090
FAX: (47-67) 33-091

R.O.C.

Tai Full Technologies Corp.
8th Floor, No. 96, Kuang Fu N. Rd.
Taipei, Taiwan
PH: (886-02) 731-0842
FAX: (886-02) 771-8664

SINGAPORE

Precision Component & Equipmnt.
PTE Ltd.
211 Henderson Rd. #13-02
Henderson Industrial Park, 0315
PH: (65) 273-4573
FAX: (65) 273-8898

SPAIN

SCP S.A.
c/Marques De Monteagudo
28028 Madrid
24-4 Izda
PH: 245-60-05
FAX: 246-95-25

SWEDEN

ACAL Auriema AB Technitron
Systems Div.
Johannesfredsvagen 9A
S-161 31 Bromma
PH: (46-8) 25-27-50
FAX: (46-8) 80-69-38

SWITZERLAND

Z & B Video A.G.
Althardstrasse 190
CH-8105 Regensdorf
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FAX: (41) 1840-4575

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For branch offices see last page.

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(708) 632-0900
FAX (708) 632-0993

TAE REP Inc.

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Whitney Point, NY 13862
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FAX (607) 692-3709

Underwood Sales

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Lowell, MA 01851
(508) 256-8191
FAX (508) 454-0363

EPA

7336 Ohms Lane
Minneapolis, MN 55439
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FAX (612) 835-7345

Geotronics

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L & M Associates

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(201) 797-0441
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Sel-Tronics, Inc.

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FAX (301) 341-3601

Interconnect Sales Group

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6733 S. Sepulveda Bl., Suite 210
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Aztec Enterprises

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BAKA Corp.

7620 E. Osie
Wichita, KS 67207
(316) 682-8411
FAX (316) 682-2166

ION Associates

1504 109th St.
Grand Prairie, TX 75050
(214) 647-8225
FAX (214) 641-9839

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(407) 855-0843
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